Thr	Ser 210	Asp	Thr	Lys	Ser	Asp 215	Thr	Ala	Thr	Gly	Gly 220	Glu	Ser	Ala	Gly
His 225	Ala	Thr	Ser	Ser	Gln 230	Glu	Pro	Ser	Gly	Cys 235	Ser	Asp	Gln	Arg	Pro 240
Ala	Glu	Asp	Leu	Asn 245	Ile	Arg	Val	Glu	Arg 250	Leu	Thr	Lys	Lys	Leu 255	Glu
Glu	Arg	Arg	Glu 260	Glu	Lys	Arg	Lys	Glu 265	Glu	Glu	Gln	Arg	Glu 270	Ile	Lys
Lys	Glu	Ile 275	Glu	Arg	Arg	Lys	Thr 280	Gly	Lys	Glu	Met	Leu 285	Asp	Tyr	Lys
Arg	Lys 290	Gln	Glu	Glu	Glu	Leu 295	Thr	Lys	Arg	Met	Leu 300	Glu	Glu	Arg	Asn
Arg 305	Glu	Lys	Ala	Glu	Asp 310	Arg	Ala	Ala	Arg	Glu 315	Arg	Ile	Lys	Gln	Gln 320
Ile	Ala	Leu	Asp	Arg 325	Ala	Glu	Arg	Ala	Ala 330	Arg	Phe	Ala	Lys	Thr 335	Lys
Glu	Glu	Val	Glu 340	Ala	Ala	Lys	Ala	Ala 345	Ala	Leu	Leu	Ala	Lys 350	Gln	Ala
Glu	Met	Glu 355	Val	Lys	Arg	Glu	Ser 360	Tyr	Ala	Arg	Glu	Arg 365	Ser	Thr	Val
Ala	Arg 370	Ile	Gln	Phe	Arg	Leu 375	Pro	Asp	Gly	Ser	Ser 380	Phe	Thr	Asn	Gln
Phe 385	Pro	Ser	Asp	Ala	Pro 390	Leu	Glu	Glu	Ala	Arg 395	Gln	Phe	Ala	Ala	Gln 400
Thr	Val	Gly	Asn	Thr 405	Tyr	Gly	Asn	Phe	Ser 410	Leu	Ala	Thr	Met	Phe 415	
Arg	Arg	Glu	Phe 420	Thr	Lys	Glu	Asp	Tyr 425	Lys	Lys	Lys	Leu	Leu 430	Asp	Leu
Glu	Leu	Ala 435	Pro	Ser	Ala	Ser	Val 440	Val	Leu	Leu	Pro	Ala 445		Arg	Pro
Thr	Ala 450		Ile	Val	His	Ser 455		Ser	Gly	Asp	Ile 460		Thr	Leu	Leu
Gly 465		Val	Leu	Туr	Pro 470		Leu	Ala	Ile	Trp 475		Leu	Ile	Ser	Asn 480

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Phe Leu Phe Ser Asn Pro Pro Pro Thr Gln Thr Ser Val Arg Val Thr 495

Ser Ser Glu Pro Pro Asn Pro Ala Ser Ser Ser Lys Ser Glu Lys Arg Clu Pro Single Pro Val Arg Lys Arg Val Leu Clu Lys Arg Single Pro Single Pro Single Pro Val Arg Lys Arg Val Leu Clu Lys Arg Cly Asp Asp Phe Lys
```

Lys Glu Gly Lys Ile Tyr Arg Leu Arg Thr Gln Asp Asp Gly Glu Asp 530 540

Glu Asn Asn Thr Trp Asn Gly Asn Ser Thr Gln Gln Met 545 550 555

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<210> 5286
<211> 43
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (39)
<223> Xaa equals any of the naturally occurring L-amino acids
Asn Asp Gln Asn Pro Glu Ser Gln Trp Ser Asn Asn Lys His Thr Gln
                 5
                                     10
Ile Asp Cys Leu Ile Asn Ser Phe Xaa Leu Val Phe Lys Ser Asn Thr
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25

Phe Phe Lys Ser Pro Leu Xaa Lys Met Ile Ile 35 40

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<210> 5287
<211> 143
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
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<222> (4)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
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<223> Xaa equals any of the naturally occurring L-amino acids
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<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5287
Thr Gly Trp Xaa Xaa Cys Pro Xaa Pro Gly Pro Gly Arg Arg Thr Met
                                     10
Ser Arg Gln Lys Glu Thr Leu Gln Ser Ala Phe Pro Ser Met Cys Ala
             20
                                 25
                                                     30
Leu Cys Pro Ser Glu Pro Ala Asp Xaa Arg Gly Gly Lys Asp Thr Val
         35 .
                             40
Leu Asn Glu Gln Asn Leu Gln Asp Thr Gln Ser Cys Leu Phe Ala Thr
Trp Pro Tyr Ala Cys Pro Val Phe Ser Leu Lys Ala Phe Thr His Ala
                     70
                                          75
Arg Ala Val Thr Trp Asn Val Leu Ser Ile Thr Pro Ala Val Met Pro
                 85
Ser Thr Glu Leu Asp Gly Arg Pro Leu His Gly Ser Leu Lys Arg Ser
            100
                                105
His Pro Ser Asn Trp Val Cys His Arg His Thr Gly Ser Cys Leu Pro
                            120
Val Leu Pro Val Val Ile Val Met Arg Ile Val Val Leu His Pro
    130
                        135
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<210> 5288
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<211> 48

<212> PRT

<213> Homo sapiens

<400> 5288

Ser Gly Gln Glu Pro Gly Phe Gln Gln Arg Glu Leu Glu Asn Glu Pro 1 5 10 15

Arg Gly Ala Gly Ala Gly Gly Val Gly Glu Cys Gln Arg Ala Gly Met
20 25 30

Asn Trp Gln Val Ala Trp Arg Gly Gly Leu Val Pro Lys Pro Val Leu 35 40 45

<210> 5289

<211> 232

<212> PRT

<213> Homo sapiens

<400> 5289

Pro Ala Ser Ala Thr Thr Arg Thr Gly Pro Arg Pro Gly Pro Ala Pro
1 5 10 15

Arg Cys Pro Leu Pro Ala Pro Gly His Ser Cys Thr Gln Ala Pro Pro 20 25 30

Arg Glu His Thr Ala Val His Thr Arg Glu Lys Gln Gln Leu Ala Ser 35 40 45

Leu Val Gly Thr Met Leu Ala Tyr Ser Leu Thr Tyr Arg Gln Glu Arg 50 55 60

Thr Pro Asp Gly Gln Tyr Ile Tyr Arg Leu Glu Pro Asn Val Glu Glu 65 70 75 80

Leu Cys Arg Phe Pro Glu Leu Pro Ala Arg Lys Pro Leu Thr Tyr Gln
85 90 95

Thr Lys Gln Leu Ile Ala Arg Glu Ile Glu Val Glu Lys Met Arg Arg
100 105 110

Ala Glu Ala Ser Ala Arg Val Glu Asn Ser Pro Gln Val Asp Gly Ser 115 120 125

Pro Pro Gly Leu Glu Gly Leu Leu Gly Gly Ile Gly Glu Lys Gly Val 130 135 140

His Arg Pro Ala Pro Arg Asn His Glu Gln Arg Leu Glu His Ile Met

4723

145 150 155 160

Arg Arg Ala Ala Arg Glu Glu Gln Pro Glu Lys Asp Phe Phe Gly Arg 165 170 175

Val Val Val Arg Ser Thr Ala Val Pro Ser Ala Gly Asp Thr Ala Pro 180 185 190

Glu Gln Asp Ser Val Glu Arg Arg Met Gly Thr Ala Val Gly Arg Ser 195 200 205

Glu Val Trp Phe Arg Phe Asn Glu Gly Val Ser Asn Ala Val Arg Arg 210 215 220

Ser Leu Tyr Ile Arg Asp Leu Leu 225 230

<210> 5290

<211> 92

<212> PRT

<213> Homo sapiens

<400> 5290

Ser Ile Thr Cys His Arg Glu Ser Glu Phe Leu Tyr Cys Leu Pro Ala 1 5 10 15

Ala Arg Thr Lys Ser Glu Trp Trp Gly Pro Arg Ser Ser Gln Leu Gly 20 \cdot 25 30

Glu Lys Ala Leu Pro Asp Pro Gly Thr Arg Gly Leu Gly Gln Glu Ala 35 40 45

Gly Arg Met Gly Cys Asp His Arg His Thr His Thr Arg Ser Leu 50 55 60

Ser Ser Gly Lys Gly Phe Pro Glu Ala Phe Ala His Thr Leu Asn Glu 65 70 75 80

Val Phe Ser Cys Gln Ala Lys Pro Pro Glu Glu Lys 85 90

<210> 5291

<211> 40

<212> PRT

<213> Homo sapiens

<220>

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<221> SITE
 <222> (38)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
 <221> SITE
 <222> (40)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <400> 5291
Thr Ile Lys Cys Leu Leu Leu Tyr Lys Lys Lys Lys Lys Lys Lys
                                   10
Lys Lys Lys Gly Xaa Pro Xaa
       35
<210> 5292
<211> 50
<212> PRT
<213> Homo sapiens
<400> 5292
Val Glu Asn Leu Gln Arg Asn Asp Gly Cys Lys Trp Thr Cys Lys Pro
                                  10
Lys Leu Gly Ile Gly Glu Val Arg Leu Thr Arg Leu Leu Val Arg Val
                              25
Leu Leu Asn Ser Leu Leu Met Arg Arg Cys Leu Asp Lys Tyr Lys Leu
        35
                           40
Arg Lys
    50
<210> 5293
<211> 57
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 5293
Lys Pro Leu Ala Lys Xaa Arg Gly Ile Phe Phe Phe Ile Phe Lys Cys
                 5
                                     10
Leu Gly Thr Lys Pro Lys Ser Lys Arg Leu Thr Lys His Val Ser Leu
                                 25
             20
Lys Ala Thr Cys Ile Leu Gln Tyr Asn Ile Lys Leu Phe Asn Leu Arg
                             40
Asn Leu Val Leu Leu Ile Cys Thr Phe
                         55
<210> 5294
<211> 40
<212> PRT
<213> Homo sapiens
<400> 5294
Arg Thr Phe Met Lys Arg Trp Asn Cys Ser Tyr Lys Phe Phe Leu Leu
                                    10
Leu Leu Phe Leu Asn Met Pro Trp Asn Asn Ser Thr Ile Phe Ser Pro
             20
                                 25
Ser Ile Asn Leu Ser Asn Lys Ala
                             40
         35
<210> 5295
<211> 49
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (37)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (48)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (49)
<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 5295

4726

Asn Cys Glu Asp Ile Leu Lys Leu Cys Leu Val Tyr Lys Tyr Lys Asp 10 Phe His Thr Asp Asn Tyr Gln Ile Pro Asn Thr Phe Thr Gly Lys Lys 25 Pro Ser Val Lys Xaa Leu Pro Gly Ser Ser Ser Leu Lys Phe Ser Xaa 35 40 Xaa <210> 5296 <211> 79 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (4) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (27) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (56) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (77) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (79) <223> Xaa equals any of the naturally occurring L-amino acids <400> 5296 Thr Thr Leu Xaa Arg Arg Ser Ser Leu Leu Asn Tyr Ile His Pro Asp 1 5 10 15 Cys Gly Asp Asn His Thr Pro Gln Phe Arg Xaa Tyr Tyr Tyr Gln

PCT/US00/26524 WO 01/22920

4727 20 25 30 Ser Val Gln Gly Leu Cys Trp Leu Ile Leu Phe Phe Tyr Pro Leu Tyr 40 45 His Tyr Ser Pro Ile Ser Ser Xaa Thr Phe Ile Ser Lys Asn Leu Ile 55 Val Trp His Leu Ser Leu Asp Met Glu Cys Phe Phe Xaa Lys Xaa <210> 5297 <211> 59 <212> PRT <213> Homo sapiens <400> 5297 Met Phe Gly Leu Tyr Leu Val Leu Asp Pro Glu Leu Pro Phe Ser Lys 10 Tyr Leu Asn Asp Tyr Tyr Tyr Phe Ile Ser Leu Phe Tyr Thr His Thr 30 20 25 Arg Thr His Thr His Arg Glu Met Leu Phe Met Arg Phe Cys Ile Phe 45 40 35 His Ile Leu His Ile Leu Tyr Met Ile Asp Glu 55 <210> 5298 <211> 183 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (107) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (111) <223> Xaa equals any of the naturally occurring L-amino acids

<220> <221> SITE <222> (123)

4728 <223> Xaa equals any of the naturally occurring L-amino acids <400> 5298 Gln Gly Phe Glu Arg Gln Thr Thr Ala Ala Val Gly Val Leu Lys Ala 5 Val His Cys Gly Glu Trp Pro Asp Gln Pro Arg Leu Thr Lys Asp Val Ile Cys Phe His Ala Glu Asp Phe Leu Glu Val Val Gln Arg Met Gln 40 Leu Asp Leu His Glu Pro Pro Leu Ser Gln Cys Val Gln Trp Val Asp 55 Asp Ala Lys Leu Asn Gln Leu Arg Arg Glu Gly Ile Arg Tyr Ala Arg Ile Gln Leu Tyr Asp Asn Asp Ile Tyr Phe Ile Pro Arg Asn Val Val 85 105

His Gln Phe Lys Thr Val Ser Ala Val Cys Xaa Leu Ala Trp Xaa Ile

Arg Leu Lys Leu Tyr His Ser Glu Glu Asp Xaa Ser Gln Asn Thr Ala 115 120

Thr His Glu Thr Gly Thr Ser Ser Asp Ser Thr Ser Ser Val Leu Gly 135

Pro His Thr Asp Asn Met Ile Cys Ala Val Ser Lys Pro Pro Trp Ile 155

Leu Phe Phe Gln Ile Asn Phe Ile Leu Asn Met Asn Tyr Ser Arg Leu 165

Asn Met Asn Leu Leu His Leu 180

<210> 5299

<211> 68

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5299
Ile Ser His Phe Trp Glu Gln Thr Pro Ile Lys Val Pro Gly Asp Tyr
1 5 10 15

Leu Gln Trp Xaa Ala Glu Gln Lys Ile Ser Ala Val Leu Ile Ile Val

Val Thr Trp Val Thr Pro Pro Asn Thr Leu Cys Glu Leu Ser Glu Ile 35 40 45

Phe Gly Asn Phe Leu Met Tyr Ile Leu Glu Ile Leu Asn Val Gln Ile 50 55 60

Trp Ser Ser Ile 65

<210> 5300

<211> 93

<212> PRT

<213> Homo sapiens

<400> 5300

Trp Gln Ser Val His Arg Ser Trp Leu Leu Ser Leu Leu Asn Leu Cys
1 5 10 15

Lys Arg Ser Leu Ser Asp Glu Gly Arg Ile Met Val Leu Leu Ala Leu 20 25 30

Ala Phe Pro Phe Cys Asp Leu Lys Ala Ser Ser Leu Arg Pro His Ser 35 40 45

Met Ala Pro Val Pro Tyr Ser His Ser Cys Leu Leu Lys Leu Pro Thr 50 55 60

Leu Leu Asn Cys Phe Trp Gly Glu Glu His Phe Phe Leu Lys Gln Asn 65 70 75 80

Arg Tyr Met Lys Gln Tyr Thr Gly Ile Asn Thr Asn Ile 85 90

<210> 5301

<211> 75

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

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<222> (46)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
 <221> SITE
 <222> (47)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
 <221> SITE
 <222> (48)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (57)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (65)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (71)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5301
Phe Ser Pro Lys Ala Val Leu Leu Arg Leu Cys Phe Thr Ser Ile Tyr
                                      10
Lys Leu Tyr Val Lys Cys Cys His Lys Glu Val Ser Glu Ala Val Gly
                                 25
His Thr Gln Gly Arg Ala Glu Lys Tyr Leu Val Val Cys Xaa Xaa Xaa
         35
                             40
                                                  45
Lys Pro Trp Met Ala Ala Ala Thr Xaa Pro Ala Tyr Pro Phe Thr Ala
     50
                         55
Xaa Val Tyr Ser Leu Arg Xaa Leu Thr Thr Arg
                     70
```

<213> Homo sapiens

<210> 5302 <211> 82 <212> PRT

4731 <400> 5302 Glu Leu Pro Ser Lys Arg Gln Ala Phe Val Ile Ser Met Glu Phe Glu 10 5 Gly Ser Trp Thr Ile Cys Lys Asp Ile Leu Thr Cys Ser Leu Arg Ser 20 25 Leu Ser Ser Ser Lys Arg Met Ala Arg Val Cys Gly Ile Ile Leu Ser 40 Thr Tyr Cys Cys Phe Phe Val Val Leu Leu Met Gln Val Ile Ile Tyr Phe Leu Gly Val Ile Trp Arg Lys Ser Met Arg Gln Ala Cys Phe Ser 70 Pro Val <210> 5303 <211> 272 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (220)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5303

Asp Cys Val Thr Glu Leu Ser Val His His Arg Asn Asn Arg Gln Thr 1 5 10 15

Met Glu Asp Leu Ile Ser Leu Trp Gln Tyr Asp His Leu Thr Ala Thr 20 25 30

Tyr Leu Leu Leu Ala Lys Lys Ala Arg Gly Lys Pro Val Arg Leu
35 40 45

Arg Leu Ser Ser Phe Ser Cys Gly Gln Ala Ser Ala Thr Pro Phe Thr 50 55 60

Asp Ile Lys Ser Asn Asn Trp Ser Leu Glu Asp Val Thr Ala Ser Asp 65 70 75 80

Lys Asn Tyr Val Ala Gly Leu Ile Asp Tyr Asp Trp Cys Glu Asp Asp 85 90 95

Leu Ser Thr Gly Ala Ala Thr Pro Arg Thr Ser Gln Phe Thr Lys Tyr

100 105 110

Trp Thr Glu Ser Asn Gly Val Glu Ser Lys Ser Leu Thr Pro Ala Leu 115 120 125

Cys Arg Thr Pro Ala Asn Lys Leu Lys Asn Lys Glu Asn Val Tyr Thr 130 135 140

Pro Lys Ser Ala Val Lys Asn Glu Glu Tyr Phe Met Phe Pro Glu Pro 145 150 155 160

Lys Thr Pro Val Asn Lys Asn Gln His Lys Arg Glu Ile Leu Thr Thr 165 170 175

Pro Asn Arg Tyr Thr Thr Pro Ser Lys Ala Arg Asn Gln Cys Leu Lys
180 185 190

Glu Thr Pro Ile Lys Ile Pro Val Asn Ser Thr Gly Thr Asp Lys Leu 195 200 205

Met Thr Gly Val Ile Ser Pro Glu Arg Arg Cys Xaa Gln Trp Asn Trp 210 215 220

Ile Ser Thr Lys His Ile Trp Arg Arg Leu Gln Lys Glu Arg Glu Pro 225 230 235 240

Lys Cys Leu Gly Ala Leu Lys Gly Gly Trp Ile Arg Leu Ser Leu Cys 245 250 255

Ser Pro Gly Ala Lys Gly Arg Val Leu Pro Glu Thr Gly Pro Glu Asp 260 265 270

<210> 5304

<211> 35

<212> PRT

<213> Homo sapiens

<400> 5304

Phe Leu Gly Ala Pro Ser Ile Cys Ala Gly Asp Glu Glu Gly Thr Glu

1 5 10 15

Ile Asp Thr Leu Gln Phe Arg Leu Gln Val Arg Cys Thr Arg Glu Pro 20 25 30

Pro Cys Cys

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<210> 5305
<211> 99
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (38)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (42)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5305
Asp Phe Leu Lys Gly Ser Lys Ala Phe Ala Cys Tyr Leu Cys Phe Phe
Ser Pro Lys Pro Lys Gln Lys Ile Met Pro Leu Cys Gln Thr Phe Leu
             20
                                 25
Leu Gly Thr Ser Thr Xaa Ser Gln Leu Xaa Lys Tyr Asn Val Tyr Ile
                             40
Ala Gln Phe Tyr Asn Leu Ser Met Ala Gln Ile Leu Glu Thr Tyr Lys
                         55
Leu Asp Asp His Arg Asp Ile Val Val Asn Ile Trp Ala Trp Asn Gln
Arg Thr Leu Gly Ser Asn Leu Ser Phe Lys Ser Lys Leu Asn Ser
                                     90
                 85
Leu Ala Glu
<210> 5306
<211> 66
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (38)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220> <221> SITE <222> (53) <223> Xaa equals any of the naturally occurring L-amino acids <400> 5306 Arg Phe Asn Phe Pro Ala Ser Pro Glu Ala Arg Tyr Gly His Asn Thr Lys Phe Cys Pro Arg Arg Leu Ser Lys Ile Val Trp Asp Phe Gln Glu 20 25 Met Phe Leu Lys Ser Xaa Ala Gly Leu Ser Ser Cys Leu Leu Pro Leu 40 Cys Trp Leu Glu Xaa Lys Asp His Gly Arg Arg Pro Ser Ser His Pro 55 60 Gly Arg 65 <210> 5307 <211> 148 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (18) <223> Xaa equals any of the naturally occurring L-amino acids <400> 5307 Val Leu Tyr His Cys Ala Ser Arg Tyr Arg Arg Arg Ala Arg Gln Thr 5 Cys Xaa Pro Ser Tyr Thr Arg Ser Ala Asp Leu Pro Ser Arg Thr Pro 20 25 Pro Val Glu Asp Leu Leu Glu Leu Ser Arg Ala Phe Trp Val Gly Ala Asp Gly Gly Arg Val Arg Val Leu Gly Gly Thr Glu Ala His Glu 50 55 Asp Gly Ile Pro Pro Glu Ser Met Asp His Tyr Ala Asp Gly His Arg 65 70 Pro Gln His Cys His Leu Gly Tyr Arg Cys His Gly Arg Pro Gln Arg

4735

| Solid | Ser | Val | Pro | Pr

Gly Cys Ser Gly Gln Thr Leu Val His Gly Gln Thr Ser Leu Leu Trp 130 135 140

Ile Leu Gln Asp 145

<210> 5308 <211> 77 <212> PRT

<213> Homo sapiens

<400> 5308

Met Lys Ile Phe Lys Leu Glu Leu Glu Glu Gly Val Val Glu Glu Gln 1 5 10 15

Gly Val Leu Leu His Pro Glu Val Val Gly Leu Leu Leu Pro Ala Val 20 25 30

Glu Pro Val Ile His Arg Glu Glu Val Leu Asp Gln Gln Glu Ala Phe $35 \hspace{1cm} 40 \hspace{1cm} 45$

Glu Val Arg Glu Glu Val Pro Asn Asn Lys Glu Ala Ala Gly Arg Glu
50 55 60

Lys Gly Ser Arg Pro Val Leu Thr Cys Tyr Asn Glu Asp 65 70 75

<210> 5309 <211> 704

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

		· (3)		uals	any	of t	he n	atur	ally	occ	urri	ng L-	amin	o ac	cids
_	400-	530	00												
X	aa G 1	ly }	(aa l	ys G	ly A 5	rg G	lu G	ly L	ys G	ly G 10	ly Se	er Ar	g Gl		y Ala .5
A	rg A	la H	is A	rg G 20	lu Ai	rg A	la A	rg A:	rg Ai 25	rg Va	al G]	lu Le	u As _i		g Val
C.7	/s C	ys G	ln A 35	rg A	rg G]	lu Le	eu Ai	rg Pi 10	:0 P1	co Pl	he Ty	r Ası		r Se	r Thr
Ar	g A	la G 50	ly H	is Aı	g Gl	u G1	ln Ar 55	g Al	a Ar	g Va	al Se 6		J Asr	ı Pr	o Ile
					,	U				7	5				r Gly 80
				Ü	,				9	0				95	
Ası	p Th	x Th	r Se 10	r Al	a Va	1 11	e Hi	s Se:	r Gl	u As:	n Phe	⊖ Gln	Thr	Leu	Leu
Ası	Al	a Gl 11	y Le 5	u Pr	o Glr	ı Lys	s Va:	l Ala	a Gli	u Ly:	s Leu	Asp 125	Glu	Ile	Tyr
		-				133	,				9 Glu 140				
					150					155					160
				103					170		Lys			175	
			100	•				185			Lys		190		
Val	Ala	Asp 195) Ser	Ser	Lys	Gly	Pro 200	Asp	Glu	Ala	Lys	Ile 205	Lys	Ala	Leu
Leu	Glu 210	Arg	Thr	Gly	Tyr	Thr 215	Leu	Asp	Val	Thr	Thr 220	Gly	Gln /	Arg	Lys
					230					235	Gly				240
Val	Gly	Thr	Glu	Ile 245	Phe	Val	Gly	Lys	Ile 250	Pro	Arg	Asp 1		Phe	Glu

Asp	Glu	Leu	Val 260	Pro	Leu	Phe	Glu	Lys 265	Ala	Gly	Pro	Ile	Trp 270	Asp	Leu
Arg	Leu	Met 275	Met	Asp	Pro	Leu	Thr 280	Gly	Leu	Asn	Arg	Gly 285	Tyr	Ala	Phe
Val	Thr 290	Phe	Суѕ	Thr	Lys	Glu 295	Ala	Ala	Gln	Glu	Ala 300	Val	Lys	Leu	Tyr
Asn 305	Asn	His	Glu	Ile	Arg 310	Ser	Gly	Lys	His	Ile 315	Gly	Val	Суѕ	Ile	Ser 320
Val	Ala	Asn	Asn	Arg 325	Leu	Phe	Val	Gly	Ser 330	Ile	Pro	Lys	Ser	Lys 335	Thr
Lys	Glu	Gln	11e 340	Leu	Glu	Glu	Phe	Ser 345	Lys	Val	Thr	Glu	Gly 350		Thr
Asp	Val	Ile 355	Leu	Tyr	His	Gln	Pro 360	Asp	qzA	Lys	Lys	Lys 365	Asn	Arg	Gly
Phe	Cys 370	Phe	Leu	Glu	Tyr	Glu 375	Asp	His	Lys	Thr	Ala 380	Ala	Gln	Ala	Arg
Arg 385	Arg	Leu	Met	Ser	Gly 390	Lys	Val	Lys	Val	Trp 395	Gly	Asn	Val	Gly	Thr 400
Val	Glu	Trp	Ala	Asp 405	Pro	Ile	Glu	Asp	Pro 410	Asp	Pro	Glu	Val	Met 415	Ala
Lys	Val	Lys	Val 420	Leu	Phe	Val	Arg	Asn 425	Leu	Ala	Asn	Thr	Val 430	Thr	Glu
Glu	Ile	Leu 435	Glu	Lys	Ala	Phe	Ser 440	Gln	Phe	Gly	Lys	Leu 445	Glu	Arg	Val
Lys	Lys 450	Leu	Lys	Asp	Tyr	Ala 455	Phe	Ile	His	Phe	Asp 460	Glu	Arg	Asp	Gly
Ala 465		Lys	Ala	Met	Glu 470	Glu	Met	Asn	Gly	Lys 475	Asp	Leu	Glu	Gly	Glu 480
Asn	Ile	Glu	Ile	Val 485	Phe	Ala	Lys	Pro	Pro 490	Asp	Gln	Lys	Arg	Lys 495	Glu
Arg	Lys	Ala	Gln 500	Arg	Gln	Ala	Ala	Lys 505	Asn	Gln	Met	Tyr	Asp 510	Asp	Tyr
Туr	Туг	Туг 515	Gly	Pro	Pro	His	Met 520	Pro	Pro	Pro	Thr	Arg 525		Arg	Gly

Arg Gly Gly Arg Gly Gly Tyr Gly Tyr Pro Pro Asp Tyr Tyr Gly Tyr 535 Glu Asp Tyr Tyr Asp Tyr Tyr Gly Tyr Asp Tyr His Asn Tyr Arg Gly 550 555 Gly Tyr Glu Asp Pro Tyr Tyr Gly Tyr Glu Asp Phe Gln Val Gly Ala 565 570 Arg Gly Arg Gly Arg Gly Ala Arg Gly Ala Ala Pro Ser Arg Gly 580 585 Arg Gly Ala Ala Pro Pro Arg Gly Arg Ala Gly Tyr Ser Gln Arg Gly 600 Gly Pro Gly Ser Ala Arg Gly Val Arg Gly Ala Arg Gly Gly Ala Gln 615 Gln Gln Arg Gly Arg Gly Val Arg Gly Ala Arg Gly Gly Arg Gly Gly 630 635 Asn Val Gly Gly Lys Arg Lys Ala Asp Gly Tyr Asn Gln Pro Asp Ser 645 650 655... Lys Arg Arg Gln Thr Asn Asn Gln Asn Trp Gly Ser Gln Pro Ile Ala 665 Gln Gln Pro Leu Gln Gly Gly Asp His Ser Gly Asn Tyr Gly Tyr Lys 680 Ser Glu Asn Gln Glu Phe Tyr Gln Asp Thr Phe Gly Gln Gln Trp Lys

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<210> 5310
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<211> 69

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

4739

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5310

Asp Tyr Ala Leu Ser Asn Thr Thr Xaa Tyr Arg Glu Lys Leu Val Arg

1 5 10 15

Leu Gln Val Pro Val Arg Xaa Phe Pro Gly Arg Pro Thr Arg Pro Trp
20 25 30

Glu Thr Glu Gln Asp Ser Val Ser Lys Lys Asn Lys Asn Lys Asn Lys 35 40 45

Lys Thr Glu Gly Gln Ala Gln Val Lys Tyr Pro Ile Phe Ile Leu Ser
50 55 60

Arg Gly Ile Lys Lys 65

<210> 5311

<211> 116

<212> PRT

<213> Homo sapiens

<400> 5311

Cys Ser Asn Cys Pro Lys Leu Trp Pro Lys Lys Ala Pro Ser Asn Trp

1 5 10 15

Leu Leu Cys Pro Phe Asp Met Ala His His Ser Leu Asn Thr Phe Tyr
20 25 30

Ile Trp His Asn Asn Val Leu His Thr His Leu Val Phe Phe Leu Pro $35 \hspace{1cm} 40 \hspace{1cm} 45$

His Leu Leu Asn Gln Pro Phe Ser Arg Gly Ser Phe Leu Ile Trp Leu 50 55 60

Leu Leu Cys Trp Asn Ser Trp Tyr His Leu Arg Thr Leu Arg Arg Gln 65 70 75 80

Ala Asn Gln Ala Asn Lys Leu Ser Met Met Leu Leu Arg Val Lys Gln 85 90 95

Ser Pro Gly Thr Lys Leu Cys His Gly Asp Ser Glu Leu Thr Ser Gly
100 105 110

Leu Leu Ala Thr

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<210> 5312
  <211> 100
  <212> PRT
  <213> Homo sapiens
 <220>
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 <222> (28)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
 <221> SITE
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 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
 <221> SITE
 <222> (89)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <400> 5312
Val Thr Ile Ile Ser Ala Ser Pro Thr Gln Val Thr Leu Leu Gly
                                      10
Ser Pro Val Cys Pro His Leu Glu Val Thr Ala Xaa Pro Trp Arg Trp
              20
                                  25
Asp Ser Ile Leu Ser Pro Gly Cys Leu Pro Pro Val Arg Arg Pro Val
                              40
Ser Trp Cys Val Thr Ser Gly Arg Cys Gln Ala Cys Phe Pro Pro Ser
Phe Pro Pro Gln Arg Ala Arg Thr Asn His Gln Cys His His Thr Ser
                     70
Xaa Trp Pro Glu Asn Phe Met Asp Xaa Phe Thr Cys Ala Ile Val Asn
                 85
                                     90
Leu Arg Arg Pro
            100
<210> 5313
<211> 63
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<212> PRT

<213> Homo sapiens

4741

<400> 5313 Val Pro Gly Glu Ala Glu Leu Glu Arg Ala Val Glu Ala Phe Pro Leu 5 Leu Val Glu Ser Tyr Ala Pro His Ser Gly Ser Glu Leu Gln Leu Leu Ser Arg Thr Thr Thr Glu Ser Gly Ile Arg Val Lys Asn Thr Ser Pro 40 Thr Pro Pro Leu Leu His Pro Arg Arg Phe His Val Phe Asn Leu 55 <210> 5314 <211> 269 <212> PRT <213> Homo sapiens <400> 5314 Asp Ser Gly Ser Cys Gly Pro Asp Pro Lys Cys Gly Asp Leu Arg Arg 10 Ile Lys Gly Leu Cys Lys Phe Ala Asn Met Phe Thr Leu Ser Gln Thr Ser Arg Ala Trp Phe Ile Asp Arg Ala Arg Gln Ala Arg Glu Glu Arg 35 40 Leu Val Gln Lys Glu Arg Glu Arg Ala Ala Val Val Ile Gln Ala His Val Arg Ser Phe Leu Cys Arg Ser Arg Leu Gln Arg Asp Ile Arg Arg 70 75 Glu Ile Asp Asp Phe Phe Lys Ala Asp Asp Pro Glu Ser Thr Lys Arg 90 85 Ser Ala Leu Cys Ile Phe Lys Ile Ala Arg Lys Leu Leu Phe Leu Phe 100 Arg Ile Lys Glu Asp Asn Glu Arg Phe Glu Lys Leu Cys Arg Ser Ile 120 Leu Ser Ser Met Asp Ala Glu Asn Glu Pro Lys Val Trp Tyr Val Ser 135 Leu Ala Cys Ser Lys Asp Leu Thr Leu Leu Trp Ile Gln Gln Ile Lys

145

150

155

4742

Asn Ile Leu Trp Tyr Cys Cys Asp Phe Leu Lys Gln Leu Lys Pro Glu 165 170 175

Ile Leu Gln Asp Ser Arg Leu Ile Thr Leu Tyr Leu Thr Met Leu Val 180 185 190

Thr Phe Thr Asp Thr Ser Thr Trp Lys Ile Leu Arg Gly Lys Gly Glu
195 200 205

Ser Leu Arg Pro Ala Met Asn His Ile Cys Ala Asn Ile Met Gly His 210 215 220

Leu Asn Gln His Gly Phe Tyr Ser Val Leu Gln Cys Cys Asp Gly Leu 225 230 235 240

Phe Pro Asp Leu Val Ser Tyr Ala Pro His Asn Asn Pro Val Arg Trp
245 250 255

Ser Val Gly Arg Ser Trp Tyr Asp Trp Gln Leu Ser Arg 260 265

<210> 5315

<211> 118

<212> PRT

<213> Homo sapiens

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (94)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5315

Gly Gln Ala Arg Val Leu Pro Leu Met Gln Ile Pro Thr Arg Glu Met

1 5 10 15

Ser Arg Gly Arg Leu Leu Ser Glu Xaa Leu Gln Pro Lys Gly Cys Ser 20 25 30

Ile Ala Ile Pro Phe Pro Trp Ser Cys Gln Leu Phe Ser Gly Gln Gly 35 40 45

Pro Trp Gly Arg Trp Ser Lys Pro Ser Pro Gln Ala Gly Gly Leu Glu
50 55 60

4743

Ser Thr Arg Lys Gly Ser Thr Trp Phe Tyr Glu Gly Ile Leu Gly Gly 65 70 75 80

Ala Thr Pro His Leu Pro Pro Thr Tyr Thr Phe Cys Cys Xaa Lys Cys 85 90 95

Leu Ile Pro His Asp Val Ser Leu Ser Phe Gln Gln Lys Lys Val Lys
100 105 110

Leu Trp Val Val Glu Pro 115

<210> 5316

<211> 83

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5316

Ala Glu Arg Ser Leu Lys Ile Leu Pro Leu Leu Lys Lys Leu Leu Lys

1 5 10 15

Ser Asn Asp His Glu Cys Met Leu Gly His Leu Cys Met Tyr Ile Gln 20 25 30

Ile Asp Arg Met Asp Phe Xaa Lys Asn Gly Ile Thr Ile Val Leu Gln
35 40 45

Trp Xaa Lys Lys Tyr Gly Ile Leu Pro His Ser Leu Asn Leu Gly Gly 50 55 60

Ile Gln Lys Ala Leu Leu Lys Pro Ser Asn Lys Leu Asp Gln Leu Ser 65 70 75 80

Leu Asp Leu

<210> 5317

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<211> 77
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  <213> Homo sapiens
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  <223> Xaa equals any of the naturally occurring L-amino acids
  <220>
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 <223> Xaa equals any of the naturally occurring L-amino acids
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 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
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 <222> (47)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <400> 5317
 Leu Leu Arg Arg Gly Phe Ile Xaa Gly Phe Tyr Asn Ala Asn Val Val
 Xaa Leu Arg Xaa Lys Asn Trp Gln Leu Glu Ser Leu Ser Leu Ile Ser
             20
                                  25
 Lys Gly Asn Pro Asp Phe Phe Val Asn Tyr Val Arg Gln Val Xaa Tyr
Gly Phe Leu Tyr Glu Leu Gln Phe Thr Val His Gln Ile Leu Val Ser
Glu Glu Leu Ile Tyr Val Lys Cys Leu Lys Ile Tyr Thr
 65
                     70
<210> 5318
<211> 65
<212> PRT
<213> Homo sapiens
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<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 5318
Ser Pro Gly Gly Arg Ser Ser Leu Leu Ser Pro Val Val Ser Arg
                                     10
Thr Ser Cys Pro Asp Leu Pro Trp Ser Cys Leu Ser Asp Ser Leu His
                                 25
Gln Gly His Pro Thr Ala Ser Lys Xaa Ala Phe Pro Trp Thr Asn Ala
         35
                             40
                                                 45
Thr Ala Thr Phe Met Cys Glu Ala Lys Ile Thr Leu Gln Gln Ser Gln
                         55
Tyr
 65
<210> 5319
<211> 132
<212> PRT
<213> Homo sapiens
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<222> (131)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (132)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5319
Pro Ala Gly Glu Ser Ser Pro Ala Pro Trp Leu Lys Gly Pro Gly Ala
His Leu Pro Glu Ala Arg Cys Gly Gly Pro Arg Gly Arg Ser Gln
                                                     30
             20
                                 25
Ala Gln Ser Pro Gln Ser Ser Gly Pro Val Gly Gly Arg Gly Arg Ser
         35
                             40
Gly Ser Lys Ala Arg Thr Pro Gln Leu Phe Arg Leu Gln Gln Leu
                         55
Gln Arg Phe Gly His Gly Cys Glu Val Pro Arg Cys Trp Leu Gln Ala
                                        75
Ala Arg Glu His Pro Gly Gln Gly Gln Glu Ala Gln Ser Glu Glu Glu
```

4746

85 90 95

Gly Glu Gly Glu Gly Glu Gly Glu Glu Gly Gly Ser Pro Leu 100 105 110

Lys Gly Pro Gly Gln Gly Ser Leu Asn Leu Pro Leu Cys Leu Gln Lys
115 120 125

Lys Lys Xaa Xaa 130

<210> 5320

<211> 48

<212> PRT

<213> Homo sapiens

<400> 5320

Leu Ser Ser Ile Cys Leu Asn Ile Ser Ser Leu Gly Asp Ser Ser Pro

1 5 10 15

Leu Cys Leu Val Ala Asn Cys Asn Ser Pro Cys Gly Pro Thr Glu Tyr 20 25 30

His Ser Thr Ala Phe Leu Asp Ile Tyr Asp Val Leu Thr Ile Gln Val
35 40 45

<210> 5321

<211> 63

<212> PRT

<213> Homo sapiens

<400> 5321

Lys Glu Trp His Cys Phe Tyr Ile Phe Ala His Leu Phe His Ala Arg $1 \hspace{1cm} 5 \hspace{1cm} 10 \hspace{1cm} 15$

Leu Asn Arg Asn Ser Tyr Leu Leu Val Arg Val Val Cys Cys Asn Ile 20 · 25 30

Thr Tyr His Val Thr Ser Gly Lys Pro His Cys Met His Val Arg Glu 35 40 45

Gly Glu Ser His Val Arg Val Val Ile Lys Ile Val Leu Thr Leu 50 55 60

4747

<210> 5322 <211> 87 <212> PRT <213> Homo sapiens <400> 5322

Met Arg Arg Arg Val Phe Phe Leu His Arg Cys Ser Ile Leu Val Phe 1 5 10 15

Leu Phe Pro Cys Lys Cys Asn Gln Met Pro Phe Tyr Met Trp Thr Tyr 20 25 30

Leu Tyr Trp Pro Asn Ile Phe Phe Leu Leu Ser Leu Phe Phe Pro 35 40 45

Phe Phe Leu Leu Pro Leu Phe Leu Tyr Ser Phe Leu Phe Leu Phe Phe 50 55 60

Phe Phe Phe Ser Phe Phe Phe Gly Ser Cys Cys Tyr Pro Arg His Phe 65 70 75 80

Thr Ser Pro Ser Leu Lys Gly 85

<210> 5323 <211> 79 <212> PRT <213> Homo sapiens

<400> 5323

Ile Gly Leu Lys Ala Asn Ser Gln Gly Ala Thr Asp Pro Phe His Asn 1 5 10 15

Arg Met Leu Pro Val Asn Ser Leu Ser Ile Leu Leu Cys Pro Val Ser 20 25 30

Lys Lys Lys Lys Ser Arg Arg Val Ser Gln Ser Gly His Leu Ile 35 40 45

Arg Asp Leu Ala Gln Glu Glu Met Gly Arg Glu Ser Asp Gly Glu
50 55 60

Gln His Ser Pro Trp Glu Pro Glu Val Gly Gly His Arg Ala Pro 65 70 75

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<210> 5324
 <211> 98
 <212> PRT
 <213> Homo sapiens
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 <400> 5324
 Glu Pro Ala Ala Thr Ala Ala Glu Thr Xaa Ser Cys Val Leu Cys Gly
                                      10
 Leu Pro Ala Ala Gly Lys Ser Thr Phe Ala Arg Ala Leu Ala His Arg
Leu Gln Glu Gln Gly Trp Ala Ile Gly Val Val Ala Tyr Asp Asp
         35
Val Met Pro Asp Ala Phe Leu Ala Gly Ala Arg Ala Arg Pro Ala His
                          55
Ser Gln Trp Lys Leu Leu Arg Gln Glu Leu Leu Lys Tyr Leu Glu Tyr
                      70
Phe Leu Met Ala Val Ile Asn Gly Cys Gln Met Ser Val Pro Pro Asn
                                      90
Arg Thr
<210> 5325
<211> 178
<212> PRT
<213> Homo sapiens
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<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
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<221> SITE

<222> (9) <223> Xaa equals any of the naturally occurring L-amino acids												
<220> <221> SITE												
<pre><222> (10) <223> Xaa equals any of the naturally occurring L-amino acids</pre>												
<220>												
<pre><221> SITE <222> (12) <223> Yas equals any of the naturally occurring L-amino acids</pre>												
<223> Xaa equals any of the naturally occurring L-amino acids												
<221> SITE <222> (166)												
<223> Xaa equals any of the naturally occurring L-amino acids												
<pre><400> 5325 Gly Lys Gly Xaa Xaa Leu Pro Ile Xaa Xaa Ser Xaa Thr Phe Met Pro 1 5 10 15</pre>												
Asn Gly Cys Cys Lys Thr Cys Thr Pro Arg Asn Glu Thr Arg Val Pro 20 25 30												
Cys Ser Thr Val Pro Val Thr Thr Glu Val Ser Tyr Ala Gly Cys Thr 35 40 45												
Lys Thr Val Leu Met Asn His Cys Ser Gly Ser Cys Gly Thr Phe Val												
Met Tyr Ser Ala Lys Ala Gln Ala Leu Asp His Ser Cys Ser Cys Cys 65 70 75 80												
Lys Glu Glu Lys Thr Ser Gln Arg Glu Val Val Leu Ser Cys Pro Asn 85 90 95												
Gly Gly Ser Leu Thr His Thr Tyr Thr His Ile Glu Ser Cys Gln Cys 100 105 110												
Gln Asp Thr Val Cys Gly Leu Pro Thr Gly Thr Ser Arg Arg Ala Arg 115 120 125												
Arg Ser Pro Arg His Leu Gly Ser Val Ser Gly Val Gly Thr Ala Pro 130 135 140												
Ser Leu Pro Ser Thr Ala Leu Pro Pro Pro Asp Pro Leu Ser Leu Leu 145 150 155 160												
Lys Leu Gly Phe Leu Xaa Ser Asp Ile Tyr Cys Leu Ser Phe Cys Ser 165 170 175												

Val Leu

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<210> 5326
<211> 51
<212> PRT
<213> Homo sapiens
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<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids
Arg Gly Gln Thr Xaa Xaa Pro Ala Gly Ala Arg Xaa Gly Thr Val
                  5
                                     10
Leu Asn Pro Gly Glu Thr Ala Lys Trp Lys Thr Tyr Arg Val Cys Ala
                                 25
Leu Pro Asp Phe Thr Val Leu Leu Gly His Phe Thr Tyr Val Pro Ala
                             40
                                                  45
Val Ile Asn
     50
<210> 5327
<211> 50
<212> PRT
<213> Homo sapiens
<400> 5327
Pro Gln Leu Tyr Lys Leu Phe Phe Lys Thr Lys Tyr Phe Gln Val Tyr
                  5
                                     10
Leu Leu Thr Lys Asn Ile Ile Met Val Lys Thr Phe Leu Phe Asn Arg
```

4751

20 25 30

Leu Val Ile Phe Leu Thr Ser Ile Phe Phe Asn Leu Ser Leu His Lys 35 40 45

Lys Asn 50

<210> 5328

<211> 108

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (93)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5328

Ser Val Tyr Leu Lys Arg Asn Leu Ile Phe Gln Gly Ser Asn Val Tyr 1 5 10 15

Val Phe Gln Val Val Leu Pro Thr Phe Ile Leu Glu Arg Arg Ser Leu 20 25 30

Leu Glu Met Tyr Ala Asp Phe Phe Xaa His Pro Asp Leu Phe Val Arg 35 40 45

Tyr Leu Thr Glu His Gly Ser Phe Gln Arg Leu Gln Met Leu Leu Ser 50 55 60

Ser Phe Leu Pro Phe Ile Leu Gln Asp Arg Trp Ile Pro Cys His Leu 65 70 75 80

Ser Asn Ile Ser Gly Tyr Ser Val Val Leu Asn Asn Xaa Phe Thr Leu 85 90 95

Val Ala Cys Leu Leu Lys Val Ile Trp Gly Arg Cys 100 105

<210> 5329

<211> 67

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<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (67)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5329
Leu Cys Met Ser Leu Gly Glu Cys Val Ser Ser Thr Val Ala Pro Arg
Gly Ser Thr His Ser Leu Lys Leu Leu Leu Pro His Cys Thr Tyr Ser
                                  25
Leu Arg Leu Asn Trp Ser Gln Thr Asn Trp Asp Pro Ala Gln Ser Ser
                              40
Ser Ser Gln Asn Glu Val Leu Arg Pro Gln Cys Val Arg Thr Cys Leu
                          55
Ala Val Xaa
 65
<210> 5330
<211> 65
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (51)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5330
Ala Gln Phe Leu Gly His Ala Pro Val Cys Ser Asp Met Leu Leu Tyr
Val Thr Glu Met Ala Met Ser Thr Gly Gly Lys Ile Thr Pro Thr Trp
             20
Glu Glu Glu Lys Pro Val Arg Gly Ser Thr Ala Gly Ala Ala Leu Ser
         35
Thr Glu Xaa Ser Cys Leu Pro Asp Ser Met Ala Phe Val Ser Ile Arg
                         55
Val
 65
```

```
<210> 5331
<211> 63
<212> PRT
<213> Homo sapiens
<400> 5331
Ile Pro Ala Leu Leu Thr Ser Leu Gly Pro Trp Arg Met Leu Ser
Ile Ser Leu Ser Leu Ser Val Leu Leu Cys Lys Met Trp Met Ile Pro
                                 25
Asp Ser Gln Ala Phe Cys Gln Asp Tyr Met Gly Phe Leu His Ser Ala
                             40
Met Ser Ser Asp Asn Ile Asn Thr Lys Ser Asn Leu Leu Asn Val
                         55
<210> 5332
<211> 404
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (42)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (151)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (223)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5332
Met Pro Asp Gly Ala Thr Leu Ala Ile Gly Ser Ser Arg Gly Lys Ile
                                     10
Tyr Gln Tyr Asp Leu Arg Met Leu Lys Ser Pro Val Lys Thr Ile Ser
                                 25
Ala His Lys Thr Ser Val Gln Cys Ile Xaa Phe Gln Tyr Ser Thr Val
```

		35					40					45			
Leu	Thr 50	Lys	Ser	Ser	Leu	Asn 55	Lys	Gly	Cys	Ser	Asn 60	Lys	Pro	Thr	Th
Val 65	Asn	Lys	Arg	Met	Phe 70	Asn	Val	Asn	Ala	Ala 75	Ser	Gly	Gly	Val	G1:
Asn	Ser	Gly	Ile	Val 85	Arg	Glu	Ala	Pro	Ala 90	Thr	Ser	Ile	Ala	Thr 95	Va:
Leu	Pro	Gln	Pro 100	Met	Thr	Ser	Ala	Met 105	Gly	Lys	Gly	Thr	Val 110	Ala	Va:
Gln	Glu	Lys 115	Ala	Gly	Leu	Pro	Arg 120	Ser	Ile	Asn	Thr	Asp 125	Thr	Leu	Se
Lys	Glu 130	Thr	Asp	Ser	Gly	Lys 135	Asn	Gln	Asp	Phe	Ser 140	Ser	Phe	Asp	Ası
Thr 145	Gly	Lys	Ser	Ser	Leu 150	Xaa	Asp	Met	Phe	Ser 155	Pro	Ile	Arg	Asp	Ası 160
Ala	Val	Val	Asn	Lys 165	Gly	Ser	Asp	Glu	Ser 170	Ile	Gly	Lys	Gly	Asp 175	Gly
Phe	Asp	Phe	Leu 180	Pro	Gln	Leu	Asn	Ser 185	Val	Phe	Pro	Pro	Arg 190	Lys	Ası
Pro	Va1	Thr 195	Ser	Ser	Thr	Ser	Val 200	Leu	His	Ser	Ser	Pro 205	Leu	Asn	Va:
Phe	Met 210	Gly	Ser	Pro	Gly	Lys 215	Glu	Glu	Asn	Glu	Asn 220	Arg	Asp	Xaa	Thi
Ala 225	Glu	Ser	Lys	Lys	Ile 230	Tyr	Met	Gly	Lys	Gln 235	Glu	Ser	Lys	Asp	Ser 240
Phe	Lys	Gln	Leu	Ala 245	Lys	Leu	Val	Thr	Ser 250	Gly	Ala	Glu	Ser	Gly 255	Ası
Leu	Asn	Thr	Ser 260	Pro	Ser	Ser	Asn	Gln 265	Thr	Arg	Asn	Ser	Glu 270	Lys	Phe
Glu	Lys	Pro 275	Glu	Asn	Glu	Ile	Glu 280	Ala	Gln	Leu	Ile	Cys 285	Glu	Pro	Pro
Ile	Asn 290	Gly	Ser	Ser	Thr	Pro 295	Asn	Pro	Lys	Ile	Ala 300	Ser	Ser	Val	Thi
Ala	Glv	Val	Ala	Ser	Ser	Leu	Ser	Glu	Lve	Tle	Ala	Aen	Ser	Tla	G1-

4755

320 305 310 315 Asn Asn Arg Gln Asn Ala Pro Leu Thr Ser Ile Gln Ile Arg Phe Ile 330 325 Gln Asn Met Ile Gln Glu Thr Leu Asp Asp Phe Arg Glu Ala Cys His 345 Arg Asp Ile Val Asn Leu Gln Val Glu Met Ile Lys Gln Phe His Met 360 365 Gln Leu Asn Glu Met His Ser Leu Leu Glu Arg Tyr Ser Val Asn Glu 375 380 370 Gly Leu Val Ala Glu Ile Glu Arg Leu Arg Glu Glu Asn Lys Arg Leu 390 395 Arg Ala His Phe <210> 5333 <211> 66 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (12) <223> Xaa equals any of the naturally occurring L-amino acids <400> 5333 Arg Lys Pro Gln Thr Pro Thr Ala Leu Cys Thr Xaa Trp Cys Pro His 10 Phe Gln Lys Lys Lys Lys Ile Ser Lys Ile Glu Phe Lys Lys Ser , 20 His Leu Ser Cys Pro Ala Asn Ile Cys Ser Ser Leu Val Gly Ala Val 35 40 Glu Ala Ser Thr His Arg Gln Ala Val Ala Gly Thr Val Lys Gly Lys 55 Thr Pro 65

<210> 5334

4756 ·

<2	11>	258													
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<2	<213> Homo sapiens														
·															
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<2	21> :	SITE													
<2	22>	(251)												
<22	23> 2	Kaa e	equa]	ls ar	ny of	the	nat	ural	llv d	CCUT	rinc	1 Ta	mino	aci	a.
			_		-				, .	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		, n-c	111111	acı	us
<4(00> 5	5334													
Pro	Arg	y Val	l Arc	Arc	r Glu	. Val	Gln	Ser	· I.e.ı	Lars	. 61.	G1~	uia	. ca.	Lys
3	L		_	5					10		. 010	GII	nis		
										'				15	
Gli	ı Ile	Ser	Glu	ι Leυ	Asn	Glu	Thr	Phe	Len	Ser	. Aen	Sor	G3.,	Tire	Glu
			20)				25			nsp	Del	30		GIU
													30		
Lys	Lev	Thr	Leu	Met	Phe	Glu	Ile	Gln	Glv	T.e11	Lve	Glu	Gln	Cvc	Glu
		35	5				40		1			45		Суз	GIU
												4.0			
Asn	Leu	Glr	Gln	Glu	Lys	Gln	Glu	Ala	Ile	Leu	Asn	ጥህተ	Glu	Sor	Leu
	50)				55					60	-3-	014	DCI	Deu
Arg	Glu	Ile	Met	Glu	Ile	Leu	Gln	Thr	Glu	Leu	Glv	Glu	Ser	Δla	Gly
65					70					75	0-1	014	DCI	AIG	80
															80
Lys	Ile	Ser	Gln	Glu	Phe	Glu	Ser	Met	Lvs	Gln	Gln	Gln	Αla	Ser	Acn
				85					90	J		0211	mia	95	ASD
Val	His	Glu	Leu	Gln	Gln	Lys	Leu	Arg	Thr	Ala	Phe	Thr	Glu	Lvs	Asp
			100					105					110	_,,	nop
Ala	Leu	Leu	Glu	Thr	Val	Asn	Arg	Leu	Gln	Gly	Glu	Asn	Glu	Lys	T.em
		115					120			_		125		2,5	20u
Leu	Ser	Gln	Gln	Glu	Leu	Val	Pro	Glu	Leu	Glu	Asn	Thr	Ile	Lys	Asn
	130					135					140		_	-2-	
									_						
Leu	Gln	Glu	Lys	Asn	Gly	Val	Tyr	Leu	Leu	Ser	Leu	Ser	Gln	Arg	Asp
145					150					155					160
Thr	Met	Leu	Lys	Glu	Leu	Glu	Gly	Lys	Ile	Asn	Ser	Leu	Thr	Glu	Glu
				165					170					175	
Lys	Asp	Asp	Phe	Ile	Asn	Lys	Leu	Lys	Asn	Ser	His	Glu	Glu	Met	Asp
			180					185					190	-	
Asn	Phe	His	Lys	Lys	Cys	Glu	Arg	Glu	Glu	Arg	Leu	Ile	Leu	Glu	Leu
		195					200					205			
GIA	Lys	Lys	Val	Glu	Gln	Thr	Ile	Gln	Tyr	Asn	Ser	Glu	Leu	Glu	Gln
	210					215					220				

4757

Lys Val Asn Glu Leu Thr Gly Gly Leu Glu Glu Thr Leu Lys Glu Lys 225 230 235 240

Asp Gln Asn Asp Gln Lys Leu Glu Lys Leu Xaa Gly Ser Asn Glu Ser 245 250 255

Ser Leu

<210> 5335

<211> 60

<212> PRT

<213> Homo sapiens

<400> 5335

Tyr Ala Ile Ile Met Gln Leu Asn Val Asp Glu Ser Gly Arg Gly Trp
1 5 10 15

Ala Gln Met Val Pro His Asp Pro Gly Ile Asp Pro Glu Phe Pro Glu 20 25 30

Glu Trp Val Asp Asn Thr Tyr Ser Asn Lys Asn Pro Phe Leu Leu Phe 35 40 45

Ser Ile Lys Leu Leu Ser Lys Ile Ile Asp Arg Leu 50 55 60

<210> 5336

<211> 124

<212> PRT

<213> Homo sapiens

<400> 5336

Leu Cys His Glu Lys Leu Ser Leu Leu Glu Asp Phe Lys Asp Phe Arg
1 5 10 15

Asp Ser Cys Ser Ser Ser Glu Arg Thr Asp Gly Arg Tyr Ser Lys Tyr
20 25 30

Arg Val Arg Arg Asn Ser Leu Gln His His Gln Asp Asp Thr Lys Tyr 35 40 45

Arg Thr Lys Ser Phe Lys Gly Asp Arg Thr Phe Leu Glu Gly Tyr His 50 55 60

Thr Arg Gly Leu Asp His Ser Ser Ser Trp Gln Asp His Ser Arg Phe

4758

65 70 75 80 Leu Ser Ser Pro Arg Phe Ser Tyr Val Asn Ser Phe Thr Lys Arg Thr 85 90 Val Ala Pro Asp Ser Ala Ser Asn Lys Glu Asp Ala Thr Met Asn Gly Thr Ser Ser Gln Pro Lys Lys Glu Glu Tyr Gly Ser 115 120 <210> 5337 <211> 136 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (27) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (110) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (122) <223> Xaa equals any of the naturally occurring L-amino acids <400> 5337 Met Ser Arg Thr Arg Pro Ala Arg Pro Met Gly Trp Gly Gln Gln Arg His Ser Pro Leu Val Val Gln Arg Gln Leu Xaa Arg Glu Gly Ser Ser 25 Pro Glu Gly Ser Thr Arg Arg Thr Ile Glu Gly Gln Ser Pro Glu Pro 35 45 Val Phe Gly Asp Ala Asp Val Asp Val Ser Ala Val Gln Ala Lys Leu 50 55 Gly Ala Leu Glu Leu Asn Gln Arg Asp Ala Ala Glu Thr Glu Leu 75 Arg Val His Pro Pro Cys Gln Arg His Cys Pro Glu Pro Arg Val His 85 . 90

4759

Pro Lys Lys Thr Lys Pro Pro Ala Lys Leu Pro Lys Val Xaa Thr Gln
100 105 110

Lys Pro Pro Ser Leu Ala Leu Phe Pro Xaa Ser Ser Pro Cys Gly Asn 115 120 125

Leu Leu Leu Ala Arg Lys Phe Gly 130 135

<210> 5338

<211> 120

<212> PRT

<213> Homo sapiens

<400> 5338

Val Leu Asp Arg Glu Arg Pro Ser Phe Phe Phe Phe Phe Ser Val Gln
1 5 10 15

Ala Gln Phe Cys His Gln Phe Asp Tyr Glu Lys Ser Phe Gly Leu Pro 20 25 30

Gly Ser Phe Gly Ala Trp Lys Leu Gln Met Arg Asp Gly Gly Leu His
35 40 45

Cys Phe Ala Ala Gly Glu Arg Glu Leu Ile Arg Ser Leu Pro Thr Glu 50 55 60

Val Gly Val Met Pro Asp Ala Glu Arg Ser Gly Ser Pro Arg Ala Gln 65 70 75 80

Ala Pro Cys Gly Arg Cys Pro Gln Arg Ala Ser Pro Pro Pro Arg Pro 85 90 95

Gly Ser Tyr Leu Leu His Asp Leu Leu Pro Arg Arg Ala Ala Tyr Leu 100 105 110

Leu Asp Gly Leu Leu Asp Val Leu 115 120

<210> 5339

<211> 45

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5339

Ala Gly Met Met Tyr Leu Xaa Asn His Thr Pro Val Leu Ile Ser His 1 5 10 15

Gln Ile Ser Met Phe Thr Phe Ser Val Trp Met Ser Gly Arg Thr Leu $20 \hspace{1cm} 25 \hspace{1cm} 30$

Lys Asn Trp Gln Ser Cys Pro Thr His Ala Glu His Leu . 35 40 45

<210> 5340

<211> 288

<212> PRT

<213> Homo sapiens

<400> 5340

Arg Ser Ala Pro Pro Gly Arg Cys Arg Pro Trp Pro Val Pro Ser Pro 1 5 10 15

Arg Phe Ser Ala Pro Arg Ala Val Pro Ser Gln Ser Pro Ala Pro Arg 20 25 30

Tyr Arg Ala Asp Arg Pro Ser Arg Arg Leu Pro Val Pro Gly Thr Pro
35 40 45

Ala Arg Pro Leu Ala Arg Ser Pro Pro Ala Ala His Val Pro Gly Ala 50 55 60

Gly Pro Arg Ala Gly Gly Arg Ala Ala Arg Arg Ser Gln Ala Gly Leu
65 70 75 80

Cys Ser Val Pro Met Ala Ala Ala Gly Trp Arg Asp Gly Ser Gly Gln
85 90 95

Glu Lys Tyr Arg Leu Val Val Val Gly Gly Gly Val Gly Lys Ser

Ala Leu Thr Ile Gln Phe Ile Gln Ser Tyr Phe Val Thr Asp Tyr Asp 115 120 125

Pro Thr Ile Glu Asp Ser Tyr Thr Lys Gln Cys Val Ile Asp Asp Arg 130 135 140

Ala Ala Arg Leu Asp Ile Leu Asp Thr Ala Gly Gln Glu Glu Phe Gly
145 150 155 160

4761

Ala Met Arg Glu Gln Tyr Met Arg Thr Gly Glu Gly Phe Leu Leu Val 165 170 175

Phe Ser Val Thr Asp Arg Gly Ser Phe Glu Glu Ile Tyr Lys Phe Gln 180 185 190

Arg Gln Ile Leu Arg Val Lys Asp Arg Asp Glu Phe Pro Met Ile Leu 195 200 205

Ile Gly Asn Lys Ala Asp Leu Asp His Gln Arg Gln Val Thr Gln Glu 210 215 220

Glu Gly Gln Gln Leu Ala Arg Gln Leu Lys Val Thr Tyr Met Glu Ala 225 230 235 240

Ser Ala Lys Ile Arg Met Asn Val Asp Gln Ala Phe His Glu Leu Val 245 250 255

Arg Val Ile Arg Lys Phe Gln Glu Gln Glu Cys Pro Pro Ser Pro Glu 260 265 270

Pro Thr Arg Lys Glu Lys Asp Lys Lys Gly Cys His Cys Val Ile Phe 275 280 285

<210> 5341

<211> 279

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (88)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5341

Pro Ser Glu Pro Leu Leu Ala Leu Arg Gly Gly Ala Thr Asp Ala Cys 20 25 30

Leu Ala Arg Arg Thr Leu Arg Asp Pro Gly Ala Ala Gln Pro Ala Glu 35 40 45

Pro Arg Arg Ser Pro Ala Pro Gly Ala Pro Gly Ser Gln Cys Arg Pro 50 55 60

Ala Gly Gly Pro Val Arg Glu Pro Arg Val Arg Glu Leu Arg Leu His 65 70 75 Pro Asp Ala Ala Val Ala Arg Xaa Gly Thr Gly His Tyr Leu Cys Asn Ala Cys Gly Leu Tyr Ser Lys Met Asn Gly Leu Ser Arg Pro Leu Ile 105 Lys Pro Gln Lys Arg Val Pro Ser Ser Arg Arg Leu Gly Leu Ser Cys 115 120 Ala Asn Cys His Thr Thr Thr Thr Leu Trp Arg Arg Asn Ala Glu 135 Gly Glu Pro Val Cys Asn Ala Cys Gly Leu Tyr Met Lys Leu His Gly 150 155 Val Pro Arg Pro Leu Ala Met Lys Lys Glu Gly Ile Gln Thr Arg Lys 165 170 Arg Lys Pro Lys Asn Ile Asn Lys Ser Lys Thr Cys Ser Gly Asn Ser 180 185 Asn Asn Ser Ile Pro Met Thr Pro Thr Ser Thr Ser Ser Asn Ser Asp 200 205 Asp Cys Ser Lys Asn Thr Ser Pro Thr Thr Gln Pro Thr Ala Ser Gly 210 215 Ala Gly Ala Pro Val Met Thr Gly Ala Gly Glu Ser Thr Asn Pro Glu 225 235 Asn Ser Glu Leu Lys Tyr Ser Gly Gln Asp Gly Leu Tyr Ile Gly Val 245 250 Ser Leu Ala Ser Pro Ala Glu Val Thr Ser Ser Val Arg Pro Asp Ser 265 270 Trp Cys Ala Leu Ala Leu Ala 275

<210> 5342

<211> 55

<212> PRT

<213> Homo sapiens

<400> 5342

4763

Glu Glu Leu Glu Ala Arg Gly Leu Arg Trp Leu Pro Trp Val Phe Pro 1 5 10 15

Ser Arg Leu Cys Tyr Cys Val Arg Pro Phe Ser His Cys Gly His Val 20 25 30

Phe Leu Glu Ser Ile Phe Gln Val Leu Tyr Ile Gln His Ser Pro Pro 35 40 45

Ser Phe Ser Leu Ile Pro Phe 50 55

<210> 5343

<211> 59

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5343

Thr Glu Glu Ile Leu Arg Thr Arg Gly Ser Thr Arg Glu Phe Arg Thr
1 5 10 15

Gly Thr Cys Arg Arg Thr Ser Phe Pro Ile Val Ser Arg Ile Arg Ala 20 25 30

Trp Arg Asn His Gly His Ser Xaa Phe Leu Cys Glu Ile Gly Ile Arg
35 40 45

Ser Gln Phe His Thr Thr Tyr Glu Pro Glu Ala 50 55

<210> 5344

<211> 103

<212> PRT

<213> Homo sapiens

<400> 5344

Ser Met His Lys Ala Gly Leu Leu Gly Leu Cys Ala Arg Ala Trp Asn 1 5 10 15

Ser Val Arg Met Ala Ser Ser Gly Met Thr Arg Arg Asp Pro Leu Ala 20 25 30

4764 Asn Lys Val Ala Leu Val Thr Ala Ser Thr Asp Gly Ile Gly Phe Ala Ile Ala Arg Arg Leu Ala Gln Asp Gly Ala His Val Val Ser Ser 50 55 Arg Lys Gln Gln Asn Val Asp Gln Ala Val Ala Thr Leu Gln Gly Glu 70 Gly Leu Ser Val Thr Gly Thr Cys Ala Met Trp Gly Arg Arg Thr 90 Gly Ser Gly Trp Trp Pro Arg 100 <210> 5345 <211> 51 <212> PRT <213> Homo sapiens <220> ---<221> SITE <222> (48) <223> Xaa equals any of the naturally occurring L-amino acids <400> 5345 Ser Leu Tyr Met Leu Thr Asn Ser Lys Gly Lys Glu Ile Asp His Lys 5 Leu His Val Asn Val Glu Gly Lys Leu Ile Asp His Lys Leu Lys Tyr 20 Asn Leu Ile Cys Tyr Ile Phe Leu Leu Ile Tyr Ile Pro Met Lys Xaa 40 45 Phe Leu Tyr 50 <210> 5346 <211> 96 <212> PRT <213> Homo sapiens <220> <221> SITE

<223> Xaa equals any of the naturally occurring L-amino acids

<222> (20)

4765

<400> 5346

Cys Phe Ser Leu Pro Ser Leu Phe Thr Ala Val Lys Phe Ile Lys Cys
1 5 10 15

Phe Ser Val Xaa Phe Cys Ser Leu Ser Phe Thr Gly Tyr Phe Phe Met 20 25 30

Tyr Thr Phe Arg Ile Phe Cys Leu Leu Tyr Pro Val Val Gln Met Ile 35 40 45

Ser Tyr Ile Leu Gln Met Pro Phe Gln Phe Leu Phe Ser Phe Ser Ile 50 55 60

Lys Leu Pro Ser Cys Pro Asn Val Gln Phe Val Ser Val Cys Val Cys 65 70 75 80

Val Cys Val Cys Val Asn Leu Ile Phe Lys Ser Ala Arg Leu Pro Ile 85 90 95

<210> 5347

<211> 291

<212> PRT

<213> Homo sapiens

<400> 5347

Arg Pro Asp Ser Arg Val Asp Pro Arg Val Arg Glu Val Thr Asp Tyr 1 5 10 15

Ala Ile Ala Arg Arg Ile Val Asp Leu His Ser Arg Ile Glu Glu Ser 20 25 30

Ile Asp Arg Val Tyr Ser Leu Asp Asp Ile Arg Arg Tyr Leu Leu Phe
35 40 45

Ala Arg Gln Phe Lys Pro Lys Ile Ser Lys Glu Ser Glu Asp Phe Ile 50 55 60

Val Glu Gln Tyr Lys His Leu Arg Gln Arg Asp Gly Ser Gly Val Thr 65 70 75 80

Lys Ser Ser Trp Arg Ile Thr Val Arg Gln Leu Glu Ser Met Ile Arg 85 90 95

Leu Ser Glu Ala Met Ala Arg Met His Cys Cys Asp Glu Val Gln Pro 100 105 110

гуs	nis	115	гÀЗ	GIu	Ala	Phe	Arg 120	Leu	Leu	Asn	Lys	Ser 125		Ile	Arg
Val	Glu 130	Thr	Pro	Asp	Val	Asn 135		Asp	Gln	Glu	Glu 140		Ile	Gln	Met
Glu 145	Val	Asp	Glu	Gly	Ala 150	Gly	Gly	Ile	Asn	Gly 155		Ala	Asp	Ser	Pro 160
Ala	Pro	Val	Asn	Gly 165	Ile	Asn	Gly	Tyr	Asn 170	Glu	Asp	Ile	Asn	Gln 175	Glu
Ser	Ala	Pro	Lys 180	Ala	Ser	Leu	Arg	Leu 185	Gly	Phe	Ser	Glu	Туг 190	Cys	Arg
Ile	Ser	Asn 195	Leu	Ile	Val	Leu	His 200	Leu	Arg	Lys	Val	Glu 205	Glu	Glu	Glu
Asp	Glu 210	Ser	Ala	Leu	Lys	Arg 215	Ser	Glu	Leu	Val	Asn 220	Trp	Tyr	Leu	Lys
Glu 225	Ile	Glu	Ser	Glu	Ile 230	Asp	Ser	Glu	Glu	Glu 235	Leu	Ile	Asn	Lys	Lys 240
Arg	Ile	Ile	Glu	Lys 245	Val	Ile	His	Arg	Leu 250	Thr	His	Tyr	Asp	His 255	Val
Leu	Ile	Glu	Leu 260	Thr	Gln	Ala	Gly	Leu 265	Lys	Gly	Ser	Thr	Glu 270	Gly	Ser
Glu	Ser	Туr 275	Glu	Glu	Asp	Pro	Tyr 280	Leu	Val	Val	Asn	Pro 285	Asn	Tyr	Leu
	Glu 290	Asp								J					
<211 <212	> 53 > 33 > PR > Ho		apie	ns											
	> 53		7 × ~	0	3			_ •	_						
1	-ys	DET 1	ar g	ser.	MIG .	wig '	нта .	Ala	Leu 10	Leu	Thr '	Val	Leu	Gly 15	Val

Cys Val Gln Ser Glu Gln Gly Leu Cys Phe Trp Ile Val Lys Glu Asp

25

4767

Ala

<210> 5349 <211> 54

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<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5349
Thr Pro Ala Gly Xaa Arg Ser Gly Asn Ser Arg Val Glu Gly Pro Leu
                                     10
Ser Cys Leu Tyr Ser Phe Ser Leu Leu Tyr Ser Phe Thr Arg Ser Pro
                                 25
His Leu Thr Ser Glu Leu Leu Gly Pro Leu Asp Pro His Ile Ser Trp
                             40
Ala Ile Ser Leu Phe Cys
     50
<210> 5350
<211> 80
<212> PRT
<213> Homo sapiens
<220>
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<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
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<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
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<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5350
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Xaa Arg Lys Thr Leu Asp Val Xaa Xaa Thr Ile Met Gly Thr Arg Ile
1 5 10 15

Glu Gly Phe Phe Pro Leu Lys Ala Phe Leu Pro Gly Gly Trp Ala Leu 20 25 30

Leu Gly His Ala Leu Gln Ser Ser Val Pro Gln Gln Glu Ser Gly Gly
35 40 45

His His Leu Pro Ala Ser Ser Thr Phe Ser Ala Ser Leu Phe Ser Met 50 55 60

Asn Pro Gly Arg Pro Ala Gly Thr Ser Lys Phe Pro Gly Leu Ser Ala 65 70 75 80

<210> 5351

<211> 53

<212> PRT

<213> Homo sapiens

<400> 5351

Gln Thr Leu Arg Thr Lys Met Asn Glu Asn Leu Phe Ala Ser Phe Ile

1 5 10 15

Ala Pro Thr Ile Leu Gly Leu Pro Ala Ala Val Leu Ile Ile Leu Phe 20 25 30

Pro Pro Leu Leu Ile Pro Thr Ser Lys Tyr Leu Ile Asn Asn Arg Leu 35 40 45

Ile Thr Thr Gln Gln 50

<210> 5352

<211> 185

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (113)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5352

4769

Arg Cys Pro Thr Arg Ser Pro Pro Pro Asp Thr Pro Gly Ser Arg Gly
1 5 10 15

Thr Thr Ala Met Cys Ser Leu Ala Ser Gly Ala Thr Gly Gly Arg Gly 20 25 30

Ala Val Glu Asn Glu Glu Asp Leu Pro Glu Leu Ser Asp Ser Gly Asp 35 40 45

Glu Ala Ala Trp Glu Asp Glu Asp Asp Ala Asp Leu Pro His Gly Lys
50 55 60

Gln Gln Thr Pro Cys Leu Phe Cys Asn Arg Leu Phe Thr Ser Ala Glu 65 70 75 80

Glu Thr Phe Ser His Cys Lys Ser Glu His Gln Phe Asn Ile Asp Ser 85 90 95

Met Val His Lys His Gly Leu Glu Phe Tyr Gly Tyr Ile Lys Leu Ile 100 105 110

Xaa Phe Ile Arg Leu Lys Asn Pro Thr Val Glu Tyr Met Asn Ser Ile 115 120 125

Tyr Asn Pro Val Pro Trp Glu Lys Glu Glu Tyr Leu Lys Pro Val Leu 130 135 140

Val Ser Val Pro Phe Ser Tyr Pro Asn Gly Leu Ser Glu Asn Thr Ser 165 170 175

Val Val Glu Lys Leu Lys His Met Glu 180 185

<210> 5353

<211> 76

<212> PRT

<213> Homo sapiens

<400> 5353

Tyr Ile Lys Ala Leu Leu Ser Ser Asp Tyr Ala Tyr Phe Ala Ser Arg
1 5 10 15

Glu Thr Glu Ala Trp Val Gly Gln Arg Gly Ala His Val Phe Thr Ala
20 25 30

Leu Ser Ala Pro Asp Phe Gly Ala Ile Ser Leu His Pro Cys Ala Pro

4770

35 40 45

Val Lys Asn Leu Ala Ser Thr Phe Cys Ser Pro Asp Pro Pro Ser Leu 50 55 60

Thr Cys Gly Ser Cys His Thr Lys Met Gly Leu Pro
65 70 75

<210> 5354

<211> 62

<212> PRT

<213> Homo sapiens

<400> 5354

Gly Thr Gln Leu Ile Thr Arg Arg Ile Asn Trp Pro Lys Phe Leu Ile
1 5 10 15

Phe Gln Phe Val Ala Pro Ala Pro Arg Asp His Gln Lys Leu Phe Trp 20 25 30

Val Ser Leu Ser Leu Arg Arg Asp Pro Leu His Arg Pro Ser Leu Ile 35 40 45

Leu Ile Ser Pro Cys Pro Glu Ser Val Asn Val Pro Arg Lys
50 55 60

<210> 5355

<211> 80

<212> PRT

<213> Homo sapiens

<400> 5355

Gly His Val Asp Asn Leu Arg Tyr His Ser Ile Val His Asn Val His 1 5 10 15

His Tyr Ser Val Asp Cys Lys Gly Leu Leu Ser Ser Cys Lys Asn Tyr 20 25 30

Pro Ser Lys Ser Ile Phe Lys Val Leu Val Leu Leu Ile Tyr Lys Leu 35 40 45

Cys Ala Arg Ser Pro Lys Val Asn Ser Asn Ile Tyr Leu Lys Tyr Ser 50 55 60

Leu Ser Tyr Leu Ile Asn Leu Trp Tyr Ile Phe Leu Tyr Tyr Ala Cys
65 70 75 80

4771

<211> 116 <212> PRT <213> Homo sapiens <400> 5356 Leu Lys Met Lys Thr Pro Phe Phe Ile Phe Asn Leu Ala Glu Thr Ala 10 His Met Pro Ser Lys Val Lys Ala Gln Leu Tyr Ala Gln Ala Tyr Asp 20 25 Leu Tyr Lys Glu Ile Val Tyr Leu Gln Lys Glu His Pro Val Asn Trp 40 His Lys Asn Tyr Ala Ile Ala Cys Glu Arg Met Leu Arg Leu Gln Ala 50 Arg Asp Ala Asp Pro Glu Val Leu Leu Ser Glu Thr Ile Arg His Phe 65 70 75 Arg Leu Tyr Ser Gln Lys Ala Pro Asn Asp Pro Gln Gln Ala Asp Ile Leu Gly Ala Leu Lys His Leu Arg Lys Glu Leu Gln Ser Leu Arg Asn 100 105 110 Arg Lys Asn Val 115 <210> 5357 <211> 184 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (110) <223> Xaa equals any of the naturally occurring L-amino acids Trp Ile Pro Arg Ala Ala Gly Ile Arg His Glu Glu Pro Ala Gly His 5 10 15

<210> 5356

Ser Gln Lys Lys Gly Lys Ala Ile Asn Ile Gly Gln Leu Val Asp Val 20 25 30

Lys Val Leu Glu Lys Thr Lys Asp Gly Leu Glu Val Ala Val Leu Pro 35 40 45

His Asn Ile Arg Ala Phe Leu Pro Thr Ser His Leu Ser Asp His Val 50 55 60

Ala Asn Gly Pro Leu Leu His His Trp Leu Gln Ala Gly Asp Ile Leu 65 70 75 80

His Arg Val Leu Cys Leu Ser Gln Ser Glu Gly Arg Val Leu Leu Cys 85 90 95

Arg Lys Pro Ala Leu Val Ser Thr Val Glu Gly Gly Gln Xaa Pro Lys
100 105 110

Asn Phe Ser Glu Ile His Pro Gly Met Leu Leu Ile Gly Phe Val Lys 115 120 125

Ser Ile Lys Asp Tyr Gly Val Phe Ile Gln Phe Pro Ser Gly Leu Ser 130 135 140

Gly Leu Ala Pro Lys Ala Ile Met Ser Asp Lys Phe Val Thr Ser Thr 145 150 155 160

Ser Asp His Phe Val Glu Gly Gln Thr Val Ala Ala Lys Val Thr Asn 165 170 175

Val Asp Glu Glu Lys Gln Arg Met 180

<210> 5358

<211> 77

<212> PRT

<213> Homo sapiens

<400> 5358

Asn Leu Arg Phe Asp Asp Ala Glu Ala Leu Asp Tyr Thr Phe Ala Tyr

1 5 10 15

Phe Asp Lys Val His Leu Ser Leu Phe Ile Ser Ser Val Phe Phe Cys
20 25 30

Tyr Gln Arg Gln Leu Ile Ser Phe Val Pro Gln Tyr Phe Phe Cys Lys 35 40 45

Tyr Leu Pro Lys Phe Phe Gln Ile Leu Cys Lys Met Gln Val Ile Val

4773

50 55 60·

Glu Met Pro Val Tyr Ala Phe Met Leu Ala Ser Leu Asn 65 70 75

<210> 5359

<211> 83

<212> PRT

<213> Homo sapiens

<400> 5359

Gln Ser Val Tyr Lys Arg Gly Leu Gln Lys Lys Met Arg Ala Cys Phe 1 5 10 15

Thr Gln Gln Lys Ile Trp Pro Phe Leu Asn Asp Thr Arg Arg Val Ile 20 25 30

Leu Ser His Thr Phe Pro Ser Phe Arg Trp Trp Thr Phe Val Glu Thr 35 40 45

Gly Thr Gln Trp Ser Asn Arg Leu Cys Pro Pro Val Ala Asp Ser Pro 50 55 60

Ala Gly Arg Trp Thr Arg Gly Pro Val Leu Thr Val Thr Arg Leu Ser 65 70 75 80

Leu Leu Glu

<210> 5360

<211> 82

<212> PRT

<213> Homo sapiens

<400> 5360

Phe Tyr Pro Gly Arg Lys Ile Lys Gly Ser His Arg Ile Ala Leu Val 1 5 10 15

Lys Thr Lys His Thr Ile Ala Leu Thr Glu Tyr Leu Gly Asn Leu Pro 20 25 30

Asn Leu Leu Ile Phe Gly Val Cys Phe Leu Thr Val Gly Leu Trp Glu 35 40 45

Asp Val Ile Tyr Asp Gln Tyr Leu Pro Val Thr Leu Phe Ile Ser Leu 50 55 60

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Ala Leu Lys Ala Asn Gly Gly Lys Lys Ser Met Lys Lys Lys Arg Leu
                      70
                                           75
 Ile Lys
 <210> 5361
 <211> 100
 <212> PRT
 <213> Homo sapiens
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 <222> (15)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
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 <222> (70)
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<222> (100)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5361
Gly Lys Met Cys Ala Ala Gln Val Arg Glu Tyr Tyr Leu Ala Xaa Lys
Lys Lys Lys Gly Gly Arg Ser Arg Gly Ser Lys Leu Thr Tyr Ala Cys
                                 25
Met Arg Arg His Ser Ser Ser Ile Val Ser Pro Lys Phe Asn Ser Leu
         35
                             40
                                                  45
Ala Val Val Leu Gln Arg Arg Asp Trp Glu Asn Pro Gly Val Thr Gln
     50
Leu Asn Arg Leu Ala Xaa His Pro Pro Phe Ala Ser Trp Arg Asn Ser
                     70
                                         75
Glu Glu Ala Arg Thr Asp Arg Pro Ser Gln Gln Leu Arg Lys Pro Glu
                                     90
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Trp Xaa Met Xaa 100

<210> 5362 <211> 379 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (10) <223> Xaa equals any of the naturally occurring L-amino acids <400> 5362 Arg Pro Thr Arg Pro Val Phe Tyr Ala Xaa Glu Ser Trp Ile Lys Tyr 5 Asp Val Gln Glu Arg Gln Lys Tyr Leu Ala Gln Leu Leu Asn Ser Val 20 25 Arg Leu Pro Leu Leu Ser Val Lys Phe Leu Thr Arg Leu Tyr Glu Ala 35 40 Asn His Leu Ile Arg Asp Asp Arg Thr Cys Lys His Leu Leu Asn Glu Ala Leu Lys Tyr His Phe Met Pro Glu His Arg Leu Ser His Gln Thr 65 70 75 Val Leu Met Thr Arg Pro Arg Cys Ala Pro Lys Val Leu Cys Ala Val 85 Gly Gly Lys Ser Gly Leu Phe Ala Cys Leu Asp Ser Val Glu Met Tyr 105 Phe Pro Gln Asn Asp Ser Trp Ile Gly Leu Ala Pro Leu Asn Ile Pro 120 Arg Tyr Glu Phe Gly Ile Cys Val Leu Asp Gln Lys Val Tyr Val Ile 130 135 140 Gly Gly Ile Ala Thr Asn Val Arg Pro Gly Val Thr Ile Arg Lys His 145 150 155 Glu Asn Ser Val Glu Cys Trp Asn Pro Asp Thr Asn Thr Trp Thr Ser 170 165

Leu Glu Arg Met Asn Glu Ser Arg Ser Thr Leu Gly Val Val Leu

4776

			180	•				185	;				190)	
Ala	Gly	Glu 195	Leu	Tyr	Ala	Leu	Gly 200		туг	Asp	Gl ₃	/ Glr 205		туі	Let
Gln	Ser 210	Val	Glu	Lys	Tyr	Ile 215	Pro	Lys	Ile	Arg	Lys 220		Glr	Pro	Va]
Ala 225	Pro	Met	Thr	Thr	Thr 230	Arg	Ser	Cys	Phe	Ala 235		Ala	Val	. Lev	Asp 240
Gly	Met	Ile	Tyr	Ala 245	Ile	Gly	Gly	Tyr	Gly 250		Ala	His	Met	Asn 255	
Va1	Glu	Arg	Tyr 260	Asp	Pro	Ser	Lys	Asp 265	Ser	Trp	Glu	Met	Va1 270		Ser
Met	Ala	Asp 275	Lys	Arg	Ile	His	Phe 280	Gly	Val	Gly	Val	Met 285		Gly	Phe
Ile	Phe 290	Val	Val	Gly	Gly	His 295	Asn	Gly	Val	Ser	His 300	Leu	Ser	Ser	Ile
G1u 305	Arg	Tyr	Aśp	Pro	His 310	Gln	Asn	Gln	Trp	Thr 315	Val	Cys	Arg	Pro	Met 320
Lys	Glu	Pro	Arg	Thr 325	Gly	Val	Gly	Ala	Ala 330	Val	Ile	Asp	Asn	Tyr 335	Leu
Tyr	Val	Val	Gly 340	Gly	His	Ser	Gly	Ser 345	Ser	Tyr	Leu	Asn	Thr 350	Val	Gln
Lys	Tyr	Asp 355	Pro	Ile	Ser	Asp	Thr 360	Trp	Leu	Asp	Ser	Ala 365	Gly	Met	Ile
Tyr	Cys 370	Arg	Cys	Asn		Gly 375	Leu	Thr	Ala	Leu					
<210 <211 <212 <213	> 13 > PR	0 T	apie:	ns											
<400: Lys 1			Thr :	Ser 1	Leu '	Thr '	Tyr :	Phe	Phe	Ser	Phe	Ser	Ala	Phe	Arg

10

Met Ile Pro Tyr Pro Leu Glu Lys Gly His Leu Phe Tyr Pro Tyr Pro

5

4777

Ile Cys Thr Glu Thr Ala Asp Arg Glu Leu Leu Pro Ser Phe His Glu
35 40 45

Val Ser Val Tyr Pro Lys Lys Glu Leu Pro Phe Phe Ile Leu Phe Thr 50 55 60

Ala Gly Leu Cys Ser Phe Thr Ala Met Leu Ala Leu Leu Thr His Gln 65 70 75 80

Phe Pro Glu Leu Met Gly Val Phe Ala Lys Ala Met Ile Asp Ile Phe 85 90 95

Cys Ser Ala Glu Phe Arg Asp Trp Asn Cys Lys Ser Ile Phe Met Arg 100 105 110

Val Glu Asp Glu Leu Glu Ile Pro Pro Ala Pro Gln Ser Gln His Phe 115 120 125

Gln Asn 130

<210> 5364

<211> 72

<212> PRT

<213> Homo sapiens

<400> 5364

Ser Ser Ala Leu Glu Val Leu Glu Phe Leu Ile Ser Phe Ile Gln Phe 1 5 10 15

Gln Gly Leu Ile Phe Tyr Arg Leu Pro Arg Gln Phe Ile Gln Gly Leu 20 25 30

Leu Tyr Leu Arg Phe Thr Cys His Val Arg Ser Ser Gly Phe Glu His 35 40 45

Lys Leu Tyr Ser Trp Asp Leu Ser Asp Thr Pro Leu Leu Thr Gly Leu 50 55 60

Gly Phe His Phe Ser Asp Pro Phe 65 70

<210> 5365

<211> 62

<212> PRT

<213> Homo sapiens

<400> 5365 Ser Ala Pro Ser Pro Asn Leu Leu Pro Leu Gly Arg Val Gly Leu Arg Asp Leu Leu Ser Trp Lys Val Leu Thr Leu Pro Gly Glu Gly Ala Arg 25 His Cys Pro Arg Glu Ser Asn Arg Arg Trp Lys Lys Ser Ile Lys Ser 40 Asp Gln Asp Gly Gly Lys Lys Lys Lys Lys Arg Gly Gly 55 <210> 5366 <211> 80 <212> PRT <213> Homo sapiens <400> 5366 Gln Leu Val Thr Val Glu Glu Ala Gly Trp Val Phe Ser Gly Pro Arg 5 10 Lys Phe Lys Met Ser Ala Met Leu Ser Ile Ile Thr Phe Cys Cys Gln 25

Lys Gly Trp Gln Ile Glu Ala Phe Leu Pro Ile Ala Phe Ser Glu Leu 35 40 45

Pro Cys Gln Ser Phe Thr Leu Gly Lys Glu Arg Trp Ala Gly Ile Leu 50 55 60

Gly Asn Arg Thr Pro Glu Thr Tyr Leu Cys Leu Pro Lys Asn Val Asp 65 70 75 80

<210> 5367

<211> 360

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<220> <221> SITE <222> (360) <223> Xaa equals any of the naturally occurring L-amino acids															
<223)> Xa	ıa eç	quars	any	01	cne	nacu	ITALL	.y	Cull	ing	D-all	1110	acid	.5
)> 53 Pro		Ala	Gln 5	Gly	Asp	Gln	Phe	Pro 10	Trp	Glu	Gln	Ala	Glu 15	Gly
Gln	Ala	Pro	Gly 20	Glu	Asp	Gly	Gln	Arg 25	Leu	Pro	Asp	Gln	Ile 30	His	Pro
Gly	Val	Pro 35	Ala	Arg	Arg	Arg	Pro 40	Trp	Trp	Arg	Glu	Arg 45	Ala	Arg	Ala
Val	Arg 50	Gly	Leu	Xaa	Glu	Gly 55	Arg	Glu	Pro	Glu	Lys 60	Arg	Arg	Glu	Arg
Lys 65	Gln	Arg	Arg	Glu	Gly 70	Gly	Asp	Gly	Glu	Glu 75	Gln	Asp	Val	Gly	Asp 80
Ala	Gly	Arg	Leu	Leu 85	Leu	Arg	Val	Leu	His 90	Val	Ser	Glu	Asn	Pro 95	Val
Pro	Leu	Thr	Val 100	Arg	Val	Ser	Pro	Glu 105	Val	Arg	Asp	Val	Arg 110	Pro	Tyr
Ile	Val	Gly 115	Ala	Val	Val	Arg	Gly 120	Met	Asp	Leu	Gln	Pro 125	Gly	Asn	Ala
Leu	Lys 130	Arg	Phe	Leu	Thr	Ser 135	Gln	Thr	Lys	Leu	His 140	Glu	Asp	Leu	Cys
Glu 145	Lys	Arg	Thr	Ala	Ala 150	Thr	Leu	Ala	Thr	His 155	Glu	Leu	Arg	Ala	Val 160
Lys	Gly	Pro	Leu	Leu 165	Туг	Cys	Ala	Arg	Pro 170	Pro	Gln	Asp	Leu	Lys 175	Ile
Val	Pro	Leu	Gly 180	Arg	Lys	Glu	Ala	Lys 185	Ala	Lys	Glu	Leu	Val 190	Arg	Gln
Leu	Gln	Leu 195	Glu	Ala	Glu	Glu	Gln 200	Arg	Lys	Gln	Lys	Lys 205	Arg	Gln	Ser
Val	Ser 210	_	Leu	His	Arg	Туr 215		His	Leu	Leu	Asp 220	Gly	Asn	Glu	Asn
Туг 225		Cys	Leu	Va1	Asp 230	Ala	Asp	Gly	qaƙ	Val 235		Ser	Phe	Pro	Pro 240

Ile Thr Asn Ser Glu Lys Thr Lys Val Lys Lys Thr Thr Ser Asp Leu 245 250 255 Phe Leu Glu Val Thr Ser Ala Thr Ser Leu Gln Ile Cys Lys Asp Val 260 265 Met Asp Ala Leu Ile Leu Lys Met Ala Glu Met Lys Lys Tyr Thr Leu 280 Glu Asn Lys Glu Glu Gly Ser Leu Ser Asp Thr Glu Ala Asp Ala Val 290 295 Ser Gly Gln Leu Pro Asp Pro Thr Thr Asn Pro Ser Ala Gly Lys Asp 310 315 Gly Pro Ser Leu Leu Val Val Glu Gln Val Arg Val Val Asp Leu Glu 325 330 Gly Ser Leu Lys Val Val Tyr Pro Ser Lys Ala Asp Leu Ala Thr Ala 340 345 Pro Pro His Val Thr Val Val Xaa 355 360 <210> 5368 <211> 43 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (3) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (19) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (20) <223> Xaa equals any of the naturally occurring L-amino acids <400> 5368 Ala Arg Xaa Pro Thr Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser Thr 10

4781

Ala Val Xaa Xaa Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn 20 25 30

Ser Ala Arg Asp Phe Glu His Ser Ser Asp Ile 35 40

<210> 5369

<211> 78

<212> PRT

<213> Homo sapiens

<400> 5369

Leu Gln Thr Lys Pro Ser Pro Ala Phe Phe Leu Leu Leu Leu Val Leu 1 5 10 15

Gln Leu Gln Gly Pro Phe Thr Phe Met Ser Glu Met Glu Leu Trp Leu 20 25 30

Phe Gln Trp Lys Asn Met Leu Lys Val Ser Phe Cys Ser Arg Lys Lys
35 40 45

Lys Ser Leu Pro Lys Trp Gly Lys Lys Leu Tyr Ile Tyr Leu Ile Ile 50 55 60

Gln Asn Thr Asp Gln Ser Leu Asp Leu Lys Lys Lys Lys 65 70 75

<210> 5370

<211> 47

<212> PRT

<213> Homo sapiens

<400> 5370

Gly Ile Thr Ile Arg Lys Thr Val Cys Thr Cys Ser Leu Gln Met Gln
1 10 15

Pro Leu Leu Ser Leu Thr Thr Ser Phe Tyr Leu Gln Leu Ile Glu Ser 20 25 30

Met Asp Val Glu Pro Val His Met Glu Gly Gln Leu Tyr Tyr Lys 35 40 45

<210> 5371

<211> 61

<212> PRT

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<213> Homo sapiens
 <400> 5371
 Thr Val Leu Ser Leu Ala Gly Leu Leu Gly Gly Lys Tyr Leu Gln Asn
                   5
 Asn Gly Ile Val Leu Gly Phe Leu Leu Ala Leu Glu Thr His Leu Phe
                                  25
 Thr Asn Arg Phe Pro Glu Asp Thr Leu Ile Ser Pro Ser Tyr Leu Pro
 Glu Cys Leu Leu Met Ala Ser Leu Lys Lys Gly Gly Leu
                          55
 <210> 5372
 <211> 56
 <212> PRT
 <213> Homo sapiens
<400> 5372
Ser Ser Cys Pro Lys Ala Leu Trp Gly Pro Gly Trp Arg Ser Gln Gly
                                      10
Ile Leu Tyr Asp Leu Ala Ile Gly Cys Lys Arg Lys His Ile Pro Cys
              20
                                  25
Cys Gly Ser Cys Ile Leu Phe His Ser Ser Pro Leu Lys Glu Lys Val
         35
                             40
His Val Leu Ser Pro Ala His Pro
     50
<210> 5373
<211> 238
<212> PRT
<213> Homo sapiens
<220>
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<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
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<220)>														
<221	.> SI	TE													
<222> (113)															
<223	S> Xa	aa eç	guals	any	of	the	natu	rall	ly oc	ccuri	ring	L-ar	nino	ació	ls
<400)> 53	373													
Glu 1	Lys	Leu	Ile	Leu 5	Leu	Leu	Ser	Leu	Pro 10	Gly	Ile	Asp	Ile	Asn 15	Xaa
Lys	Asp	Asn	Ala 20	Gly	Trp	Thr	Pro	Leu 25	His	Glu	Ala	Cys	Asn 30	Tyr	Gly
Asn	Thr	Val 35	Cys	Val	Gln	Glu	Ile 40	Leu	Gln	Arg	Cys	Pro 45	G1u	Val	Asp
Leu	Leu 50	Thr	Gln	Val	Asp	Gly 55	Val	Thr	Pro	Leu	His 60	Asp	Ala	Leu	Ser
Asn 65	Gly	His	Val	Glu	11e 70	Gly	Lys	Leu	Leu	Leu 75	Gln	His	Gly	Gly	Pro 80
Val	Leu	Leu	Gln	Gln 85	Arg	Asn	Ala	Lys	Gly 90	Glu	Leu	Pro	Leu	Asp 95	Tyr
Val	Val	Ser	Pro 100	Gln	Ile	Lys	Glu	Glu 105	Leu	Xaa	Ala	Ile	Thr 110	Lys	Ile
Xaa	Asp	Thr 115	Val	Glu	Asn	Phe	His 120	Ala	Gln	Ala	Glu	Lys 125	His	Phe	His
Туr	Gln 130	Gln	Leu	Glu	Phe	Gly 135	Ser	Phe	Leu	Leu	Ser 140	Arg	Met	Ļeu	Leu
Asn 145	Phe	Cys	Ser	Ile	Phe 150	Asp	Leu	Ser	Ser	Glu 155	Phe	Ile	Leu	Ala	Ser 160
Lys	Gly	Leu	Thr	His 165	Leu	Asn	Glu	Leu	Leu 170		Ala	Cys	Lys	Ser 175	
Lys	Glu	Thr	Thr 180	Ser	Val	His	Thr	Asp 185	Trp	Leu	Leu	Asp	Leu 190	Tyr	Ala
Gly	Asn	Ile 195	Lys	Thr	Leu	Gln	Lys 200	Leu	Pro	His	Ile	Leu 205		Glu	Lev
Pro	Glu 210	Asn	Leu	Lys	Val	Cys 215	Pro	Gly	Val	His	Thr 220		Ala	Leu	Met
Ile 225	Thr	Leu	Glu	Met	Met 230	Суѕ	Arg	Ser	Val	Met 235		Phe	Ser		

<210> 5374 <211> 78

4784

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<212> PRT
 <213> Homo sapiens
 <400> 5374
Ile Lys Asp Cys Leu Lys Thr Lys Gly Asn Leu Thr Asp Glu Lys Lys
Pro Asp Glu Arg His Leu Thr Lys Asn Glu Lys Lys Leu Ser Gly Gln
             20
                               25
Asn Asn Tyr Glu Lys Met Asn Leu Gln Ile Arg Lys Arg Glu Lys Ser
                            40
Leu Phe Asp Thr Met Gly Thr Gln Lys Arg Val Asn Thr Asn Val Lys
Ile Pro Arg Val Lys Lys Ser Ile Ile Thr Thr Phe Arg Ala
            70 75
<210> 5375
<211> 54
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (54)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5375
Phe Gly Arg Ala Val Thr Gln Ala Gly Val Leu Trp His Asn Leu Gly
                5
                                  10
Leu Leu Gln Pro Gln Phe Leu Gly Leu Asn Ser Pro Pro Thr Ser Ala
            20
Ser Trp Val Ala Gly Thr Thr Val Thr Ala Leu Pro Cys Pro Asp Asn
```

40

Phe Phe Phe Phe Xaa

```
<210> 5376
<211> 52
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (50)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5376
His Phe Thr Val Leu Phe Gly Ile Ile Leu Tyr Glu Ala Val Trp Ile
                                     10
Gly Leu Leu Phe Pro Leu Val Asn Trp Leu Met Leu Arg Phe Trp Leu
Leu Glu Ser Ile Cys Val Phe Pro Val Leu Ala Ser His Tyr Val Ile
                             40
Cys Xaa Ile Phe
     50
<210> 5377
<211> 82
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5377
Met Arg Leu Lys Ser Val Cys Val Cys Xaa Arg Ala Arg Met Trp Pro
                  5
                                                          15
Lys Asn Ser Ala Ile Met Ser Asn Ser Ser Phe Ala Leu Phe Leu Arg
             20
                                 25
Val Asp Asp Ile Arg His Phe Ser Val Phe Gly Glu Ile Asp Trp Asp
Thr Ser Pro Lys Pro Thr Gln Val Cys Asn Trp Lys Pro Gly Gly Trp
     50
                         55
                                              60
Phe Ser Gly Pro Leu Cys Pro Leu Ser Phe Thr Val Ile Leu Phe Thr
                     70
                                         75
 65
```

Ser Thr

```
<210> 5378
 <211> 290
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> SITE
 <222> (4)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <400> 5378
 Thr Asn Ser Xaa Phe Asp Lys Gln Asn Asp Asp Pro Lys Glu Arg Ile
                                      10
Asp Lys Asp Thr Lys Asn Val Asn Ser Asn Thr Gly Met Gln Thr Thr
              20
                                  25
Glu Asn Tyr Leu Thr Glu Lys Gly Asn Glu Arg Asn Val Lys Phe Pro
         35
                              40
Pro Glu His Pro Val Glu Asn Asp Val Thr Gln Thr Val Ser Ser Phe
Ser Leu Pro Ala Ser Ser Arg Ser Lys Lys Leu Cys Asp Val Thr Thr
 65
                     70
                                         75
Gly Leu Lys Ile His Val Ser Ile Pro Asn Arg Ile Pro Lys Ile Val
                 85
                                      90
Lys Glu Gly Glu Asp Asp Tyr Tyr Thr Asp Gly Glu Glu Ser Ser Asp
                                105
Asp Gly Lys Lys Tyr His Val Lys Ser Lys Ser Ala Lys Pro Ser Thr
                            120
Asn Val Lys Lys Ser Ile Arg Lys Lys Tyr Cys Lys Val Ser Ser
    130
                        135
Ser Ser Ser Ser Leu Ser Ser Ser Ser Gly Ser Gly Thr Asp Cys
145
                    150
                                        155
                                                            160
Leu Asp Ala Gly Ser Asp Ser His Leu Ser Asp Ser Ser Pro Ser Ser
                165
                                    170
Lys Ser Ser Lys Lys His Val Ser Gly Ile Thr Leu Leu Ser Pro Lys
            180
                                185
                                                    190
```

4787

His Lys Tyr Lys Ser Gly Ile Lys Ser Thr Glu Thr Gln Pro Ser Ser 195 200 205

Thr Thr Pro Lys Cys Gly His Tyr Pro Glu Glu Ser Glu Asp Thr Val 210 215 220

Thr Asp Val Ser Pro Leu Ser Thr Pro Asp Ile Ser Pro Leu Gln Ser 225 230 235 240

Phe Glu Leu Gly Ile Ala Asn Asp Gln Lys Val Lys Ile Lys Lys Gln 245 250 255

Glu Asn Val Ser Gln Glu Ile Tyr Glu Asp Val Glu Asp Leu Lys Asn 260 265 270

Asn Ser Lys Tyr Leu Lys Ala Ala Lys Lys Gly Glu Glu Asn Leu Gly 275 280 285

Leu Leu 290

<210> 5379

<211> 59

<212> PRT `

<213> Homo sapiens

<400> 5379

Pro Lys Thr Ala Phe Asp Ser Cys Ser Pro Thr Cys Ser Ser Pro Ser 1 5 10 15

Phe Leu His Leu Arg Asn Val Thr Ser Ser Ala Lys Ser Phe Pro Asp 20 25 30

Leu Ser Lys Ile Ile Thr Ser Ser Val Cys Cys Gly Asn Leu Tyr Arg
35 40 45

Met Val Gly Lys Phe Gln Val Ser Tyr Leu Asp 50 55

<210> 5380

<211> 152

<212> PRT

<213> Homo sapiens

<400> 5380

Lys Leu Leu Phe Ser Leu Ser Ile Leu Leu Phe Phe Gly Lys Gln

4788

10 15 Ser Leu Ser Pro Val Met Gly Gly Gly Gly Trp Glu Arg Leu His Ser 25 Thr Pro Trp Lys Trp Glu Tyr Pro Tyr Val Val Phe Gly Ile Phe Leu 40 Tyr Gly Lys Phe Val Ser Pro Ser His Pro Asn Leu Phe Thr Ser Val 55 Trp Thr His Val Tyr Phe Val Phe Trp Val Thr Gln Tyr Leu Phe Cys 70 Cys Leu Ser Cys Pro Ala Trp Leu Leu Gly Val Leu Pro Gly Trp Leu 90 Leu Cys Pro Phe Asp Val Pro Ile Leu Leu Ile Phe Glu His Phe Leu 100 110 Leu Ser Gly Thr Thr Arg Cys Ser Arg Phe Ile Leu Asp Ile Pro Cys 115 120 Pro Asn Pro Arg Ile Pro Arg Ile Asn Pro Cys Ser Lys Glu Pro Trp 135 Phe Leu Leu Glu Asn His Thr 145 150 <210> 5381 <211> 76 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (62) <223> Xaa equals any of the naturally occurring L-amino acids Phe Leu Cys Ser Val Val Tyr Phe Phe Phe Leu Leu Leu Ser Pro 5 Leu Ser Pro Leu Lys Ala Gly Asn Arg Leu Leu Glu Asn Leu Arg Gly 20 Lys Arg Ile Leu Phe Thr Gly Gly Ser Arg Lys Leu Ser Glu Arg Ser 40

4789

Ile Val Leu Ser Pro Phe Pro Leu Ser Phe Gln Phe Gly Xaa Trp Trp 50 55 60

Ser Glu Glu Glu Lys Glu Ile Leu Cys Met Tyr Val 65 70 75

<210> 5382

<211> 50

<212> PRT

<213> Homo sapiens

<400> 5382

Gly Asp Asp Phe Gly Arg Asn Pro Phe Gly Thr Thr His Pro Ala Met

1 5 10 15

Ser Val Glu Lys Trp Asn Cys Asn Pro Gln Glu Ser His Phe Ile Phe 20 25 30

Leu Pro Phe Lys Trp Leu Ile Lys Gly Ser Ala Ser Ser Thr Gly Phe
35 40 45

Met Glu 50

<210> 5383

<211> 133

<212> PRT

<213> Homo sapiens

<400> 5383

Asn Ala His Ala Gly Arg Tyr Cys Ser Tyr Gln Tyr Phe Ala Phe Tyr 1 5 10 15

Asn Lys Gly Leu Phe Ile Leu Met Pro Phe Leu Gln Asp Phe Phe Val 20 25 30

Ile Ser Val His Met Lys Met Leu Thr Leu Asn Ile Asn Thr Trp Arg
35 40 45

Pro Cys Pro Val Ala Leu Pro Trp Leu Pro Ala Trp Ser Val Phe Pro 50 55 60

Cys Gly Phe Thr Cys Gly Pro Ala Val Ala Thr Ser Met Val Cys Val 65 70 75 80

Leu Val Asp Ser Leu Gln Leu Ser Asp Ala Ser Phe Cys His Asn His 85 90 95

```
Leu Phe Pro Asp Thr Ile Val Leu Ile Leu Phe Gln Asn Cys Lys Ile
             100
                                 105
                                                     110
 Ile Ser Ser Leu Lys Cys Lys Gly Cys Phe Cys Ser Val Ser Val Phe
                             120
 Phe Glu Ile Lys Leu
    130
<210> 5384
<211> 74
<212> PRT
<213> Homo sapiens
<400> 5384
Tyr Leu Phe Ser Leu Leu Phe Met Ser Leu Cys Arg Ile Leu Gly Tyr
Ser Phe Ser Ser Arg Leu Ser Ser Leu Ile Leu Pro Leu Ala Val Phe
                                 25
His Tyr Cys Leu Ser Cys Pro Leu His Phe Lys Leu Ser Phe Lys Tyr
         35
Leu Pro Phe Pro Ser Phe Pro Phe Ser Ser Leu Pro Cys Pro Ala Leu
                          55
Pro Cys Pro Ala Leu Pro Ser Pro Pro Leu
                     70
<210> 5385
<211> 71
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (42)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (59)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
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4791

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5385

Ile Phe Asp Phe Phe His Gln Arg Phe Cys Phe Pro Ala Ile Asp Phe 1 5 10 15

Ala Tyr Leu Leu Leu Asp Leu Tyr Leu Lys Val Leu Ser Phe Trp Asn 20 25 30

Val Cys Phe Cys Thr Cys Phe Ala Asn Xaa Phe Leu Asn Ser Lys Phe 35 40 45

Tyr Cys Leu Ala Tyr Asn Asn Leu Asn Phe Xaa Tyr Ile Asn Pro Gly 50 55 60

Glu Lys Glu Pro Lys Xaa Thr 65 70

<210> 5386

<211> 74

<212> PRT

<213> Homo sapiens

<400> 5386

Leu Ala Asn Cys Ala Phe Lys Lys Lys Asn Arg Gln Thr Phe Glu Gly
1 5 10 15

Gln Glu Gly Ser Cys Pro Val Phe Gln Lys Ser Phe Phe Pro Ala Ile 20 25 30

Arg Asn Val Lys Pro Asn Leu Ala Thr Lys Ile Asn Glu Lys Met Gly 35 40 45

Phe Pro Leu Val Leu Ser Leu Ser Cys Ser Trp Leu Cys Tyr Val Leu 50 55 60

Ser Pro Arg Leu Tyr Pro Asp Lys Met Ser 65 70

<210> 5387

<211> 64

<212> PRT

<213> Homo sapiens

<400> 5387

Gly Lys Arg His Ile Phe Ser Leu Thr Gln Leu Ala Asp Thr Glu Val 1 5 10 15

Gly Arg Trp Gln Glu Lys Ala Ser Thr Glu Leu Ile Gln Thr Cys Arg
20 25 30

Lys Leu Pro Leu Leu Leu Ser Lys Met Lys Gly Ser Gly Lys Arg

His Leu Pro Phe Pro Ala Leu Arg Ile Leu Ala Ser Leu Ser Leu Tyr 50 55 60

<210> 5388

<211> 220

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (156)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (169)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (220)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5388

Tyr Arg Glu Ser Trp Tyr Ala Cys Arg Tyr Arg Ser Gly Ile Pro Gly

1 5 10 15

Ser Thr His Ala Ser Ala Asn Ser Phe Val Lys Phe Ala Asn Ile Glu 20 25 30

Glu Asp Thr Pro Ser Tyr His Arg Arg Tyr Asp Phe Phe Val Ser Arg
35 40 45

Phe Ser Ala Met Cys His Ser Cys His Ser Asp Pro Glu Ile Arg Thr 50 55 60

Glu Ile Arg Ile Ala Gly Ile Arg Gly Ile Gln Gly Val Val Arg Lys

4793

65 70 75 80 Thr Val Asn Asp Glu Leu Arg Ala Thr Ile Trp Glu Pro Gln His Met 85 90 Asp Lys Ile Val Pro Ser Leu Leu Phe Asn Met Gln Lys Ile Glu Glu 105 Val Asp Ser Arg Ile Gly Pro Pro Ser Ser Pro Ser Ala Thr Asp Lys 120 Glu Glu Asn Pro Ala Val Leu Ala Glu Asn Cys Phe Arg Glu Leu Leu 130 135 Gly Arg Ala Thr Phe Gly Asn Met Asn Asn Ala Xaa Arg Pro Val Phe 145 150 155 Ala His Leu Asp His His Lys Leu Xaa Asp Pro Asn Glu Phe Ala Val 165 170 His Cys Phe Lys Ile Ile Met Tyr Ser Ile Gln Ala Gln Tyr Ser His 180 185 His Val Ile Gln Glu Ile Leu Gly His Leu Asp Ala Arg Lys Lys Asp 195 200 Ala Pro Gly Phe Glu Gln Val Leu Phe Arg Phe Xaa 215 <210> 5389 <211> 65 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (18) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (40) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (42) <223> Xaa equals any of the naturally occurring L-amino acids

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<220>
 <221> SITE
 <222> (45)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
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<222> (54)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (64)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5389
Leu Cys Val Arg Cys Ser Lys Lys Val Ala Gln Ser Val Met Arg Lys
Leu Xaa Gly Tyr Ile Leu Ser Arg Met Asn Arg Gln Asp Ser Leu Lys
             20
                                  25
Asn Phe Leu Gly Asn Glu Lys Xaa Ala Xaa Cys Asn Xaa Phe Met Pro
                             40
Ile Ile Pro Asn Thr Xaa Gly Gly Leu Lys Gly Glu Asp His Phe Xaa
                                              60
Pro
 65
<210> 5390
<211> 121
<212> PRT
<213> Homo sapiens
<400> 5390
Ile Cys Glu Ile Leu Ser Leu Cys Pro Phe Pro Thr Ser Gly Pro Thr
                5
                                    10
Pro Gly Pro Ser Pro Thr Phe Leu Leu Ser Ser Leu Ala Val Val Ile
             20
                                 25
Ile Trp Gly Leu Tyr Cys Thr Tyr Pro Gly Cys Val Cys Val Gly Trp
         35
                             40
Gly Gln Pro Phe Cys Thr Glu Leu Pro Gly Pro Leu Pro Pro Arg Pro
                         55
```

4795

Ser Ala Ser Leu Pro Thr His His Leu Lys Gly Arg Glu Leu Leu Phe 65 70 75 80

Leu Pro Val Leu Phe Cys Phe Leu Val Leu Pro Pro His Pro Thr Pro 85 90 95

Ser Leu Ile Tyr Pro Pro Ser Leu Ser Pro Phe Leu His Ser Gln Pro 100 105 110

His Phe Leu Phe Phe Trp Ser Val Trp
115 120

<210> 5391

<211> 49

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5391

Phe Thr Asn Trp Arg Leu Leu Ile Leu Ile His Leu Arg Phe Lys Ile
1 5 10 15

Phe Ile Asn Cys Lys Gln Cys Asn Tyr Leu Tyr Phe Thr Val Pro Ser 20 25 30

Gln Thr Phe His Leu Arg Phe Cys Cys Lys Lys His Gln Val Ser Xaa 35 40 45

Thr

<210> 5392

<211> 78

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5392

Leu Leu Ala Ala Gly Ile Ser Glu Glu Gly Leu Val Leu Ile Leu Lys

4796

5 10 15 Val Leu Cys Ser Cys Pro Arg Pro Glu Xaa Thr His Ala Glu Thr Leu 25 Pro Ser Pro Ser Lys Val Gln Gly Leu Val Thr Glu Tyr Trp Val Glu 40 His Met Thr Gly Ser Gln Leu Ile Pro Pro Ser Leu Pro Val Lys Pro 55 Gln Asp Ser Cys Phe Pro Gly Ser His Leu Arg Pro Leu Arg 70 <210> 5393 <211> 49 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (17) <223> Xaa equals any of the naturally occurring L-amino acids <400> 5393 Val Leu His His Val Leu Ile His Leu Ile Leu Thr Glu Ile Val Asn 5 10 Xaa Gly Ile Ile Leu Ile Leu Thr Leu Trp Ile Lys Lys Thr Lys Ala 25 Gln Arg Val Lys Ala Ser Leu Pro Glu Ile Ile Asp Cys Lys Phe Glu 35 40 Arg <210> 5394 <211> 29 <212> PRT <213> Homo sapiens <400> 5394 Ile Leu Thr Pro Pro Leu Cys Asp Ile Gln Lys Leu Asn Ser Lys Cys 1 5 10

Asn Lys His Leu Asn Ile Arg Ile Lys Thr Ile Lys Leu

4797

20 25

<210> 5395 <211> 187 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (168) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (180) <223> Xaa equals any of the naturally occurring L-amino acids <400> 5395 Ala Glu Ala Glu Phe Ala Met Asp Ser Asn His Gln Ser Asn Tyr Lys 5 10 Leu Ser Lys Thr Glu Lys Lys Phe Leu Arg Lys Gln Ile Lys Ala Lys 20 25 His Thr Leu Leu Arg His Glu Gly Ile Glu Thr Val Ser Tyr Ala Thr Gln Ser Leu Val Val Ala Asn Gly Gly Leu Gly Asn Gly Val Ser Arg 50 60 Asn Gln Leu Leu Pro Val Leu Glu Lys Cys Gly Leu Val Asp Ala Leu 65 70 Leu Met Pro Pro Asn Lys Pro Tyr Ser Phe Ala Arg Tyr Arg Thr Thr 90 Glu Glu Ser Lys Arg Ala Tyr Val Thr Leu Asn Gly Lys Glu Val Val 100 105 110 Asp Asp Leu Gly Gln Lys Ile Thr Leu Tyr Leu Asn Phe Val Glu Lys 115 Val Gln Trp Lys Glu Leu Arg Pro Gln Ala Leu Pro Pro Gly Leu Met 135 140 Val Val Glu Glu Ile Ile Ser Ser Glu Glu Glu Lys Met Leu Leu Glu 150 155 Ser Val Asp Trp Thr Glu Asp Xaa Asp His Gln Asn Ser Gln Lys Ile

4798

165 170 175

Leu Lys Thr Xaa Lys Ser Lys Ala Phe Trp Leu 180 185

<210> 5396

<211> 75

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5396

Phe Phe Pro Phe Gly Asn Ser Val Asn Pro Ala Val Gly Cys Cys Leu

1 5 10 15

Ser Asp Tyr Lys Arg Leu Gly Ser Cys Phe Cys Phe Lys Cys Leu Arg 20 25 30

Leu Trp Ser Tyr Thr Leu Val Leu Leu Gly Gln Ser Glu His Cys Leu 35 40 45

Leu Cys Lys Ile Ile Ser Phe Arg Val Xaa Ser Cys Gln Ile Tyr Trp 50 55 60

Pro Leu Ile Gln Tyr Ser Trp Val Tyr Cys Met 65 70 75

<210> 5397

<211> 81

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

4799

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5397

Glu Asp Gln Glu Lys Lys Glu Leu Lys Met Glu Lys Ala Thr Val Arg

1 5 10 15

Thr Val Gly Tyr Arg Arg Arg Asn Ser Gly Ser Thr Xaa Asp Pro Pro 20 25 30

Pro Gly Xaa Met Ser Phe Gln Glu Trp Asn Pro Ser Leu Val Met Val
35 40 45

Ser Xaa Pro Val Leu Pro Ala Ser Thr Leu Pro Cys Pro Pro Arg Gly 50 55 60

Val Ser Glu Ser Ala Ser Gly Phe Leu Met Met Val Val Val Val Val 65 70 75 80

Val

<210> 5398

<211> 83

<212> PRT

<213> Homo sapiens

<400> 5398

Tyr Phe Val His His Asn Phe Cys Ile Tyr Phe Phe Lys Tyr Cys Ile 1 5 10 15

Lys Ile Ser Phe Ser Leu Ile Ile Glu Phe Phe Gly Leu Arg Phe Phe 20 25 30

Val Ala Ser Phe Phe Phe Ser Phe Phe Pro Pro Leu Phe Phe Gly Cys
35 40 45

Pro Leu Lys Phe Cys Pro Lys Ala Gly Thr Ser Leu Ile Ser Ser Leu 50 55 60

Ala Gln Pro Cys Trp Leu Val Phe Ser Ile Tyr Phe Ser Lys Ile Phe 65 70 75 80

Val Ser Val

4800

<210> 5399 <211> 227 <212> PRT

<213> Homo sapiens

<400> 5399

Phe Ile Leu Arg Arg Leu Thr Met Asn Glu Leu Asn Ser Val Ser Asp
1 5 10 15

Leu Asp Arg Cys His Leu Tyr Leu Met Val Leu Thr Glu Leu Ile Asn 20 25 30

Leu His Leu Lys Val Gly Trp Lys Arg Gly Asn Pro Ile Trp Arg Val

Ile Ser Leu Leu Lys Asn Ala Ser Ile Gln His Leu Gln Glu Met Asp 50 55 60

Ser Gly Gln Glu Pro Thr Val Gly Ser Gln Ile Gln Arg Val Val Ser 65 70 75 80

Met Ala Ala Leu Ala Met Val Cys Glu Ala Ile Asp Gln Lys Pro Glu 85 90 95

Leu Gln Leu Asp Ser Leu His Ala Gly Pro Leu Glu Ser Phe Leu Ser 100 105 110

Ser Leu Gln Leu Asn Gln Thr Leu Gln Lys Pro His Ala Glu Gln 115 120 125

Ser Ser Tyr Ala His Pro Leu Glu Cys Ser Ser Val Leu Glu Glu Ser 130 135 140

Ser Ser Ser Gln Gly Trp Gly Lys Ile Val Ala Gln Tyr Ile His Asp 145 150 155 160

Gln Trp Val Cys Leu Ser Phe Leu Leu Lys Lys Tyr His Thr Leu Ile 165 170 175

Pro Thr Thr Gly Ser Glu Ile Leu Glu Pro Phe Leu Pro Ala Val Gln 180 185 190

Met Pro Ile Arg Thr Leu Gln Ser Ala Leu Glu Ala Leu Thr Val Leu 195 200 205

Ser Ser Asp Gln Val Leu Pro Val Phe His Cys Leu Lys Val Leu Val 210 215 220

Pro Asn Phe 225

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<210> 5400
<211> 55
<212> PRT
<213> Homo sapiens
<400> 5400
Gln Thr Cys Arg Phe Leu Leu Met Trp Glu Lys Ile Leu Ile Ile Asn
                 5
Asp Ile Lys Val Ile Ile Phe Ser Tyr Val Tyr Arg Tyr Leu Tyr Phe
Phe Leu Asn Glu Leu Leu Met Thr Phe Val Tyr Phe Tyr Leu Gly Leu
                             40
Leu Leu Ser His Leu Phe Leu
<210> 5401
<211> 90
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (17)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
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<222> (78)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
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<222> (84)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5401
Gln Ala Arg Leu Pro Ser Ala Asn Leu Ser Asn Trp Gly Glu Arg
                  5
Xaa Ser Ser Ser Glu Gly Arg Ala Arg Cys Gln Ile Cys Ser Ser Ala
             20
Pro Ala Ser Ala Ala Arg Arg Ala Glu Gly Ala Pro Gly Pro Arg
         35
                             40
                                                  45
```

Pro Val Thr Gly Arg Ala Gly Ala Pro Ala Val Arg Gly Arg Arg Arg 50 55 60

Gly Pro Cys Arg Cys Trp Gly Thr Arg Tyr Arg Pro Cys Xaa Pro Arg 65 70 75 80

Pro Pro Pro Xaa Gly Pro Leu Leu Ala Pro 85 90

<210> 5402

<211> 48

<212> PRT

<213> Homo sapiens

<400> 5402

Ile Arg His Glu Glu Leu Arg Lys Glu Gly Phe Asp Pro Ala Ile Val
1 5 10 15

Lys Asp Pro Leu Phe Tyr Leu Asp Ala Gln Lys Gly Arg Tyr Val Pro 20 25 30

Leu Asp Gln Glu Ala Tyr Ser Arg Ile Gln Ala Gly Glu Glu Lys Leu 35 40 45

<210> 5403

<211> 100

<212> PRT

<213> Homo sapiens

<400> 5403

Phe Gly Thr Arg Thr Lys Pro Ile Lys Pro Ala Leu Lys Ser Ala Glu

1 5 10 15

Val Glu Leu Lys Thr Gly Gly Asn Asn Ser Asn Gln Val Ser Glu Thr
20 25 30

Asp Glu Lys Glu Asp Leu Leu His Glu Asn Arg Leu Met Gln Asp Glu 35 40 45

Ile Ala Arg Leu Arg Leu Glu Lys Asp Thr Ile Lys Asn Gln Asn Leu 50 55 60

Glu Lys Lys Tyr Leu Lys Asp Phe Glu Ile Val Lys Arg Lys His Glu

4803

65 70 75 80

Asp Leu Gln Lys Ala Leu Lys Arg Glu Trp Gly Asn Ile Ser Lys Asn 85 90 95

Asp Ser Leu Leu 100

<210> 5404

<211> 38

<212> PRT

<213> Homo sapiens

<400> 5404

Pro His Arg Thr Ala Phe Ser Cys Phe Ser Asp Thr Leu Met Lys Val 1 5 10 15

Trp Arg Ser Gly Asp Ile Ile Asp Lys Ile Tyr Gln Phe Pro Glu Lys
20 25 30

Thr Leu Asp Leu Lys Thr 35

<210> 5405

<211> 62

<212> PRT

<213> Homo sapiens

<400> 5405

Asp His Thr Gly Gln Arg Gly Leu His Ser His Leu Arg Leu Gln Asp 1 5 10 15

Gly Arg Pro Ala Ala Gly Gly Thr Arg Gly His Arg Ala Pro Leu Pro 20 25 30

Leu Val Pro Asn Ser Cys Ser Pro Gly Asp Pro Leu Val Leu Glu Arg
35 40 45

Pro Pro Pro Arg Trp Ser Thr Ser Phe Val Pro Leu Val Ser 50 55 60

<210> 5406

<211> 183

<212> PRT

<213> Homo sapiens

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<220>
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<222> (83)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (125)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (130)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5406
Leu Pro Pro Gln Ala Phe Asn His Ile Ala Lys Leu Cys Ser Leu Lys
                                      10
Arg Leu Val Leu Tyr Arg Thr Lys Val Glu Ile Glu Asp Tyr Asp Val
             20
Ile Ala Ser Met Ile Gly Ala Lys Cys Lys Leu Arg Thr Leu Asp
                             40
Leu Trp Arg Cys Lys Asn Ile Thr Glu Asn Gly Ile Ala Glu Leu Ala
     50
                         55
Ser Gly Cys Pro Leu Leu Glu Glu Leu Asp Leu Gly Trp Cys Gln Leu
 65
Cys Arg Xaa His Arg Val Phe Thr Arg Leu Ala His Gln Leu Pro Asn
                                     90
Leu Gln Lys Leu Phe Leu Thr Ala Asn Arg Ser Val Cys Asp Thr Asp
            100
                                105
Ile Asp Glu Leu Ala Cys Asn Cys Thr Arg Leu Gln Xaa Leu Asp Ile
        115
                            120
Leu Xaa Thr Arg Met Val Ser Pro Ala Ser Leu Arg Lys Leu Leu Glu
                                            140
Ser Cys Lys Asp Leu Ser Leu Leu Asp Val Ser Phe Cys Ser Gln Ile
                    150
                                        155
Asp Asn Arg Ala Val Leu Glu Leu Asn Ala Ser Phe Pro Lys Val Phe
                165
                                    170
Ile Lys Lys Ser Phe Thr Gln
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4805

180

<210> 5407 <211> 89 <212> PRT

<213> Homo sapiens

<400> 5407

Ser Ser Trp Val Gly Gly Ser Leu Arg Gln Ala Ala Thr Leu Glu Gly
1 5 10 15

Glu Gln Gly Ser Ala Val Ser Ala Ala Ser His Ala Arg Ser Asp Leu 20 25 30

Ser Leu Gly Thr Pro Gln Glu Pro Glu Asp Ser Ser Gly Gln Cys Arg 35 40 45

Trp Gly Val Gly Glu Ser Gly Arg Glu Ala Leu Arg Ala Pro Ser 50 55 60

Pro Thr Thr Asn Leu Ala Leu Val Val Ile Phe Arg Gln Asn Phe Val 65 70 75 80

Val Phe Phe Pro Phe Tyr Asp Gly Phe 85

<210> 5408

<211> 322

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5408

His Ile Xaa Thr His Thr Gly Glu Arg Pro Phe Lys Cys Pro Phe Glu
1 5 10 15

Gly Cys Gly Arg Ser Phe Thr Thr Ser Asn Ile Arg Lys Val His Val 20 25 30

Arg Thr His Thr Gly Glu Arg Pro Tyr Tyr Cys Thr Glu Pro Gly Cys 35 40 45

Gly Arg Ala Phe Ala Ser Ala Thr Asn Tyr Lys Asn His Val Arg Ile

	50					55					60				
His 65	Thr	Gly	Glu	Lys	Pro 70	Tyr	Val	Cys	Thr	Val 75		Gly	Cys	Asp	Lys 80
Arg	Phe	Thr	Glu	Туг 85	Ser	Ser	Leu	Tyr	Lys 90		His	Val	Val	His 95	Thi
His	Ser	Lys	Pro 100	Tyr	Asn	Cys	Asn	His 105		Gly	Lys	Thr	. Tyr 110	Lys	Glr
Ile	Ser	Thr 115	Leu	Ala	Met	His	Lys 120	Arg	Thr	Ala	His	Asn 125	Asp	Thr	Glu
Pro	Ile 130	Glu	Glu	Glu	Gln	Glu 135	Ala	Phe	Phe	Glu	Pro 140	Pro	Pro	Gly	Glr
Gly 145	Glu	Asp	Val	Leu	Lys 150	Gly	Ser	Gln	Ile	Thr 155	Tyr	Val	Thr	Gly	Va]
Glu	Gly	Asp	Asp	Val 165	Val	Ser	Thr	Gln	Val 170	Ala	Thr	Val	Thr	Gln 175	Ser
Gly	Leu	Ser	Gln 180	Gln	Val	Thr	Leu	Ile 185	Ser	Gln	Asp	Gly	Thr 190	Gln	His
Val	Asn	Ile 195	Ser	Gln	Ala	Asp	Met 200	Gln	Ala	Ile	Gly	Asn 205	Thr	Ile	Thr
Met	Val 210	Thr	Gln	Asp	Gly	Thr 215	Pro	Ile	Thr	Val	Pro 220	Ala	His	Asp	Ala
Va1 225	Ile	Ser	Ser	Ala	Gly 230	Thr	His	Ser	Val	Ala 235	Met	Val	Thr	Ala	Glu 240
Gly	Thr	Glu	Gly	Gln 245	Gln	Val	Ala	Ile	Val 250	Ala	Gln	Asp	Leu	Ala 255	Ala
Phe	His	Thr	Ala 260	Ser	Ser	Glu	Met	Gly 265	His	Gln	Gln	His	Ser 270	His	His
Leu	Val	Thr 275	Thr	Glu	Thr	Arg	Pro 280	Leu	Thr	Leu	Val	Ala 285	Thr	Ser	Asn
Gly	Thr 290	Gln	Ile	Ala	Val	Gln 295	Leu	Gly	Glu	Gln	Pro 300	Ser	Leu	Glu	Glu
Ala 305	Ile	Arg	Ile	Ala	Ser 310	Arg	Ile	Gln	Gln	Gly 315	Glu	Thr	Pro	Gly	Leu 320
Asp	Asp														

<210> 5409 <211> 64 <212> PRT

<213> Homo sapiens

<400> 5409

Leu Arg Leu Gln Glu Pro Ala Thr Thr His Pro Cys Pro Pro Thr Leu
1 5 10 15

Gly Leu Ile Phe Val Thr Ser Pro His Tyr Ser Glu Leu Val Arg Pro 20 25 30

Leu His Phe Cys Phe Thr Gln Leu Thr Trp Phe Ala His Thr Asp Thr 35 40 45

Asn Lys His Leu Ser Ile Pro Met Ser Leu Leu Ser Ser Lys Asn Thr 50 55 60

<210> 5410

<211> 27

<212> PRT

<213> Homo sapiens

<400> 5410

Ser Thr His Ala Ser Gly Ser Arg Ser Arg Ala Ala Leu Phe Phe 1 5 10 15

Phe Phe Lys Arg Phe Cys Thr Gly Lys Lys Lys 20 25

<210> 5411

<211> 205

<212> PRT

<213> Homo sapiens

<400> 5411

Ala Ala Ala Ala Gly Asp Pro Gly Ala Met Gly Arg Ala Arg Asp 1 5 10 15

Ala Ile Leu Asp Ala Leu Glu Asn Leu Thr Ala Glu Glu Leu Lys Lys

			20					25					30		
Phe	Lys	Leu 35	Lys	Leu	Leu	Ser	Val 40		Leu	Arg	Glu	Gly 45	Tyr	Gly	Arg
Ile	Pro 50	Arg	Gly	Ala	Leu	Leu 55	Ser	Met	Asp	Ala	Leu 60	Asp	Leu	Thr	Ası
Lys 65	Leu	Val	Ser	Phe	Tyr 70	Leu	Glu	Thr	Tyr	Gly 75	Ala	Glu	Leu	Thr	Ala 80
Asn	Val	Leu	Arg	Asp 85	Met	Gly	Leu	Gln	Glu 90		Ala	Gly	Gln	Leu 95	Glr
Ala	Ala	Thr	His 100	Gln	Gly	Ser	Gly	Ala 105	Ala	Pro	Ala	Gly	Ile 110	Gln	Ala
Pro	Pro	Gln 115	Ser	Ala	Ala	Lys	Pro 120	Gly	Leu	His	Phe	Ile 125	Asp	Gln	His
Arg	Ala 130	Ala	Leu	Ile	Ala	Arg 135	Val	Thr	Asn	Val	Glu 140	Trp	Leu	Leu	Asp
Ala 145	Leu	Tyr	Gly	Lys	Val 150	Leu	Thr	Asp	Glu	Gln 155	Tyr	Gln	Ala	Val	Arg 160
Ala	Glu	Pro	Thr	Asn 165	Pro	Ser	Lys	Met	Arg 170	Lys	Leu	Phe	Ser	Phe 175	Thr
Pro	Ala	Trp	Asn 180	Trp	Thr	Cys	Lys	Asp 185	Leu	Leu	Leu	Gln	Ala 190	Leu	Arg
Glu	Ser	Gln 195	Ser	Tyr	Leu	Val	Glu 200	Asp	Leu	Glu	Arg	Ser 205			
<210> 5412															
<211> 158															

<210> 5412 <211> 158 <212> PRT <213> Homo sapiens

<400> 5412

Ser Cys Cys Arg Cys Arg Cys Ala Arg Ala Thr Gly Ala Arg Asp Ala 1 5 10 15

Ile Leu Asp Ala Leu Glu Asn Leu Thr Ala Glu Glu Leu Lys Lys Phe
20 25 30

Lys Leu Val Ser Phe Tyr Leu Glu Thr Tyr Gly Ala Glu Leu Thr Ala 35 40 45

4809

Asn Val Leu Arg Asp Met Gly Leu Gln Glu Met Ala Gly Gln Leu Gln 50 55 60

Ala Ala Thr His Gln Gly Ser Gly Ala Ala Pro Ala Gly Ile Gln Ala
65 70 75 80

Pro Pro Gln Ser Ala Ala Lys Pro Gly Leu His Phe Ile Asp Gln His 85 90 95

Arg Ala Ala Leu Ile Ala Arg Val Thr Asn Val Glu Trp Leu Leu Asp 100 105 110

Ala Leu Tyr Gly Lys Val Leu Thr Asp Glu Gln Tyr Gln Ala Val Arg 115 120 125

Pro Ser Pro Pro Thr Gln Ala Arg Cys Gly Ser Ser Ser Val Ser His 130 135 140

Gln Pro Gly Thr Gly Pro Ala Arg Thr Cys Ser Ser Arg Pro 145 150 155

<210> 5413

<211> 40

<212> PRT

<213> Homo sapiens

<400> 5413

Pro Glu Phe Pro Gly Arg Pro Thr Arg Pro Lys Lys Lys Gln Met Leu 1 5 10 15

Lys Ser Tyr Trp Gln Ser Lys Leu Lys Leu Ala Ala Ile Phe Tyr Ile 20 25 30

Ile Ile Ser Ala Asn Pro Ile Phe 35 40

<210> 5414

.<211> 69

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5414

Ser Cys Leu Met Phe Phe Asn Met Pro Ser Tyr Lys Tyr Phe Ile Gln
1 5 10 15

Tyr Val Val Phe Val Asn Leu Thr Asn Asp Ile Lys His Lys Leu Gln
20 25 30

Lys Gly Xaa Pro Phe 65

<210> 5415

<211> 186

<212> PRT

<213> Homo sapiens

<400> 5415

Ala His Ala Ser Asp Leu Arg Ala Glu Glu Ile Asp Pro Val Tyr Phe
1 5 10 15

Asp Leu His Pro Gly Gln Gly His Thr Lys Pro Glu Tyr Tyr Tyr Pro
20 25 30

Asn Phe Leu Pro Ser Pro Phe Ser Ser Trp Asp Leu Arg Asp Met Ala 35 40 45

Leu Leu Leu Asn Ala Glu Asn Lys Thr Glu Ala Val Pro Arg Val Gly 50 55 60

Gly Leu Leu Gly Lys Tyr Ile Asp Arg Leu Ile Gln Leu Glu Trp Leu 65 70 75 80

Gln Val Gln Thr Val Gln Cys Glu Lys Ala Lys Gly Gly Lys Ala Arg
85 90 95

Pro Pro Thr Ala Pro Gly Thr Ser Gly Ala Leu Lys Ser Pro Gly Arg

Ser Lys Leu Ile Ala Ser Ala Leu Ser Lys Pro Leu Pro His Gln Glu 115 120 125

Gly Ala Ser Lys Ser Gly Pro Ser Arg Lys Lys Ala Phe His His Glu 130 135 140

4811

Glu Ile His Pro Ser His Tyr Ala Phe Glu Thr Ser Pro Arg Pro Ile 145 150 155 160

Asp Val Leu Gly Gly Thr Arg Phe Cys Ser Gln Arg Gln Thr Leu Glu 165 170 175

Met Arg Thr Glu Glu Lys Lys Lys Lys Lys 180 185

<210> 5416

<211> 39

<212> PRT

<213> Homo sapiens

<400> 5416

Cys Tyr Ser Cys Gln Thr Asn Ser Ala Lys Ile Phe Lys Val Thr Arg 1 5 10 15

Gly Lys Arg Met Thr Asn Arg Ser Ala Ser Glu Tyr Ile Phe Gln Asn 20 25 30

Val Gly Lys Lys Leu Leu Asn 35

<210> 5417

<211> 54

<212> PRT

<213> Homo sapiens

<400> 5417

Gly Ile Ser Ser Gly Arg Thr Arg Arg Glu Ser Cys Glu Leu Tyr Cys
1 5 10 15

Ile Met Tyr Ile Pro Asp Leu Ile Leu Tyr Arg Thr Phe Tyr Ser Asp
20 25 30

Ile Asn Leu Leu His Lys His Phe Ser Asn Asp Thr Lys Ile Thr Asp 35 40 45

Lys Ile Tyr Tyr Ile Gln 50

<210> 5418

<211> 91

<212> PRT

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<213> Homo sapiens
 <400> 5418
Val Pro Pro Thr Pro Gly Gln His Gln Asp Gly Ser Ser Leu Gly Ala
                  5
Phe Val Ser Pro Pro Cys Leu Cys Ser Glu Cys Ala Pro His Phe Ser
                                  25
Ala Thr Leu Thr Leu Ser Leu Ile Trp Ser Cys Leu Thr Ser Leu Leu
Tyr Ala Leu Leu Ser Ile Ser Ser Ala Leu Met Pro Ala Gly Val
                         55
Met Pro Glu Ile Ile Ser Glu Lys Ala Arg Gln Phe Cys Val Cys Val
 65
                     70
Cys Ala His Arg Gly Val Leu Val Val Leu Ile
                 85
<210> 5419
<211> 36
<212> PRT
<213> Homo sapiens
<400> 5419
Val Lys Asn Gly Lys Gln Lys Val Thr Ala Val Met Asn Ile Leu Val
                  5
Gln Ile Leu Val Leu Asn Leu Thr Pro Glu Ser Lys Ile Leu Gly Ser
                                 25
Leu Phe Pro Val
         35
<210> 5420
<211> 96
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (52)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
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<221> SITE
<222> (72)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (96)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5420
Lys Ser Lys Glu Asn Arg Asn Gln Phe Glu Gly Leu Gln Gly Gly Leu
                                     10
Leu Ala Gln Leu Ser Ile Asn Thr Tyr Gly Val Ile Ala Val Phe Ser
             20
                                 25
Arg Gly Val Leu Leu Arg Ser Gly Phe Leu Gly Leu His Ala Ala Met
                             40
Asp Leu Asp Xaa Pro Ser Val Trp Gly Ser Leu Lys Gln Arg Thr Arg
                                             60
                         55
Pro Leu Leu Ile Asn Leu Ser Xaa Lys Lys Val Lys Lys Asn Pro Ser
                     70
Lys Pro Pro Asp Leu Arg Ala Arg His His Leu Asp Arg Arg Leu Xaa
                 85
```

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<210> 5421
<211> 36
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (12)
<221> SITE
<222> (12)
<221> SITE
<222> (12)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5421
Gln Asn Ile Ser Ser Xaa Leu Ile Gly Pro Thr Xaa Val Phe Arg Val
1 5 10 15
```

4814

Met Lys Leu Arg Phe Phe Cys Val Trp Leu His His Glu Ile Leu Arg

```
Arg Pro Lys Pro
         35
<210> 5422
<211> 65
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (57)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5422
Xaa Lys Cys Lys Tyr Lys Thr Phe Gln Ile Lys Ile Glu Tyr Ala His
                                      10
Cys Ser Lys Ala Lys Leu Leu Pro Tyr Tyr Ile Tyr Phe Thr Ser Leu
                                  25
Ile Phe Ser Pro Ser Lys Met His Trp Tyr Ser Gly Leu Glu Ser Glu
                             40
Ser Phe Ala Ile Lys Leu Thr Tyr Xaa Gly Phe Asn Pro Leu Lys Val
     50
                         55
Gln
 65
<210> 5423
<211> 67
<212> PRT
<213> Homo sapiens
Gly Thr Ser Arg Pro Ser His Tyr His Val Leu Trp Asp Asp Asn Cys
                  5
                                      10
                                                          15
```

4815

Phe Thr Ala Asp Glu Leu Gln Leu Leu Thr Tyr Gln Leu Cys His Thr 20 25 30

Tyr Val Arg Cys Thr Arg Ser Val Ser Ile Pro Ala Pro Ala Tyr Tyr 35 40 45

Ala His Leu Val Ala Phe Arg Ala Arg Tyr His Leu Val Asp Lys Glu 50 60

His Asp Arg 65

<210> 5424 <211> 96 <212> PRT

<213> Homo sapiens

<220> <221> SITE

<222> (83)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (85)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5424

Pro Ile Gly Trp Lys Thr Arg Pro Ile Glu Glu Leu Gly Asn Val Ser 1 5 10 15

Phe Cys Tyr Phe Cys Tyr Ser Ser Leu Gly Phe Ile Val Ser Phe Phe 20 25 30

Ile Phe Lys Ile Leu Cys Leu Lys Val Phe Leu Leu Asn Tyr Glu Val
35 40 45

Asp Met His Val Tyr Ile Tyr Val Lys Tyr Leu Leu Cys Lys Val Phe 50 55 60

Phe Val Tyr Ser Leu Lys Arg Ser Leu Tyr Leu Asn Lys Ser Glu Gly 65 70 75 80

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<210> 5425
<211> 25
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5425
Arg Thr Pro Val Val Pro Ala Thr Xaa Glu Ala Lys Val Gly Gly Ser
                                      10
Leu Glu Pro Gly Arg Gln Arg Leu Gln
             20
<210> 5426
<211> 82
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (51)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (60)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (71)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (74)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5426
Glu Gln Ser Arg Gln Gly Ile Pro Asn Arg Ile Asn Ser Arg Phe Leu
                  5
                                      10
                                                          15
Ile Gln Lys Pro Cys Lys Pro Arg Lys Ala Met Gly Asp Ile Leu Gln
```

PCT/US00/26524 WO 01/22920

4817 30 25 20 Asn Ala Glu Ile Lys Thr Val Gln Gln Thr Phe Pro His Pro Gln Gln 35 40 Lys Ser Xaa Asn Lys Gly Lys Ser Cys Cys Met Xaa Asn Leu Asn Lys 55 Ile Gly Phe Pro Ala Gly Xaa Phe Gly Xaa Asn Phe Pro Pro Leu Asn 70 75 Val Pro <210> 5427 <211> 168 <212> PRT

<220> <221> SITE

<213> Homo sapiens

<222> (5) <223> Xaa equals any of the naturally occurring L-amino acids

<400> 5427

Arg Gly Leu Ala Xaa Lys His Pro Gly Arg Val Gly Gln Ala Ala Leu 5

Tyr Gly Cys Gly Cys Trp Ala Glu Asn Thr Gly Ala His Asn Pro Tyr 20

Ser Thr Ala Val Ser Thr Ser Gly Cys Gly Glu His Leu Val Arg Thr 40

Ile Leu Ala Arg Glu Cys Ser His Ala Leu Gln Ala Glu Asp Ala His 55

Gln Ala Leu Leu Glu Thr Met Gln Asn Lys Phe Ile Ser Ser Pro Phe 75 65 70

Leu Ala Ser Glu Asp Gly Val Leu Gly Gly Val Ile Val Leu Arg Ser 85

Cys Arg Cys Ser Ala Glu Pro Asp Ser Ser Gln Asn Lys Gln Thr Leu 105

Leu Val Glu Phe Leu Trp Ser His Thr Thr Glu Ser Met Cys Val Gly 125 120

```
Tyr Met Ser Ala Gln Asp Gly Lys Ala Lys Thr His Ile Ser Arg Leu
130 135 140
```

```
Pro Pro Gly Ala Val Ala Gly Gln Ser Val Ala Ile Glu Gly Gly Val
145 150 155 160
```

Cys Arg Leu Glu Ser Pro Val Asn
165

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<210> 5428
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<211> 81

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5428

Phe Asn Phe Glu Phe Lys Pro Lys Phe Ile Gly Arg Leu Pro Phe Asp 1 5 10 15

Leu Pro Leu Pro Pro His Leu Val Leu Ser Cys Ile Tyr Thr Pro Gly
20 25 30

Pro Cys Gly Gly Ala Ala Gly Gly Ser Cys Ala Pro Glu Met Arg Leu 35 40 45

Glu Arg Glu Leu Ala Ser Leu Leu Pro Ser Ser Val Ser Lys Glu Pro 50 55 60

Arg Pro Ser Gly Pro Ala Ser Xaa Lys Arg Trp Trp Asn Pro Cys Ala 65 70 75 80

Gly

<210> 5429

<211> 56

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

4819

<400> 5429 Tyr Met Leu Gly Glu Lys Ile Tyr Glu Asn Phe Thr Ile Ile Phe Cys Leu Asp Asn Arg Ser Glu Gly Phe Tyr Pro Thr Trp Lys Val Lys Gly 25 20 Leu Gly Leu Thr Asp Phe Leu Xaa Phe Ser Leu Asp Phe Met Lys Ser 40 Met Leu Ser Phe Ser Gln Lys His 50 <210> 5430 <211> 62 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (42) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (57) <223> Xaa equals any of the naturally occurring L-amino acids <400> 5430 Gln Cys Arg Glu Val His Leu Glu Lys Arg Arg Gly Glu Gly Leu Gly 5 Val Ala Leu Val Glu Ser Gly Trp Gly Ser Leu Leu Pro Thr Ala Val 25 20 Ile Ala Asn Leu Leu His Gly Gly Pro Xaa Glu Arg Ser Gly Ala Leu Ser Ile Gly Asp Pro Leu Thr Gly Xaa Lys Gly Asp Gln Pro 60 <210> 5431 <211> 133 <212> PRT

<213> Homo sapiens

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<220>
 <221> SITE
 <222> (36)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
 <221> SITE
 <222> (129)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (130)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (132)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5431
Phe Leu Gln His Trp Ala Ile Arg Asn Asn Phe Leu Lys Ile Thr Val
Leu Tyr Lys Tyr Leu Lys Phe Lys Tyr Arg Lys Tyr Leu Lys Gln Lys
                                 25
Ala Leu Leu Xaa Gly His Asp Thr Ser Ala Leu Trp Gln Cys Arg Leu
         35
                             40
                                                 45
Leu Arg Thr Gln Pro Cys Ser Pro Ser Val Cys Ala Pro Ser Leu Ser
Ser Phe Ala Val Ile Thr His Thr Gly Leu Pro Val Trp Ser Leu Glu
                     70
Lys Pro Gly Phe Gln Ser Thr Val Glu His Arg Ile Leu Leu Val
                 85
Trp Met Phe Asn Glu Leu Tyr Phe Lys Tyr Gln Arg Leu Leu Asn Lys
            100
                                105
Asp Asn Val Cys Phe Ser Lys Lys Lys Lys Lys Lys Lys Lys Lys
       115
                            120
                                                125
Xaa Xaa Lys Xaa Lys
   130
```

<210> 5432

4821

<211> 64

<212> PRT

<213> Homo sapiens

<400> 5432

Val Lys Gly Glu Trp Ser Gln Tyr Pro Gln Lys Cys Ser Lys Arg Ser 1 5 10 15

Asn Ser Pro Leu Lys Met Ser Leu Phe Leu Ser Met Leu Tyr Pro Gly
20 25 30

Val Leu Val Glu Gly Trp Gly Asn Gln Lys Ser Arg Phe Thr Phe Asn 35 40 45

Ile Phe Leu Asn Tyr Ile His Phe Leu Lys Arg Asn Lys Lys Cys Lys 50 55 60

<210> 5433

<211> 79

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5433

His Ile Arg Asn Lys Ile Leu Gly Tyr Phe Ile Xaa Leu Ala Tyr Phe 1 5 10 15

Phe His Asn Leu Arg Ile Thr Val Phe Val Glu Glu Ile Arg Gln Ala 20 25 30

Asn Lys Val Ala Lys Glu Ala Ala Asn Arg Trp Thr Asp Asn Ile Phe 35 40 45

Ala Ile Lys Ser Trp Ala Lys Arg Lys Phe Gly Phe Glu Glu Asn Lys 50 55 60

Ile Asp Arg Thr Phe Gly Ile Pro Glu Asp Phe Asp Tyr Ile Asp 65 70 75

<210> 5434

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<211> 183
 <212> PRT
 <213> Homo sapiens
 <400> 5434
 Gly Leu Leu Val Gly Val Gly Ala Ala Val Met Pro Gly Ile Val
                                      10
Glu Leu Pro Thr Leu Glu Glu Leu Lys Val Asp Glu Val Lys Ile Ser
                                  25
Ser Ala Val Leu Lys Ala Ala Ala His His Tyr Gly Ala Gln Cys Asp
Lys Pro Asn Lys Glu Phe Met Leu Cys Arg Trp Glu Glu Lys Asp Pro
Arg Arg Cys Leu Glu Glu Gly Lys Leu Val Asn Lys Cys Ala Leu Asp
                     70
                                          75
Phe Phe Arg Gln Ile Lys Arg His Cys Ala Glu Pro Phe Thr Glu Tyr
                 85
Trp Thr Cys Ile Asp Tyr Thr Gly Gln Gln Leu Phe Arg His Cys Arg
            100
                                105
Lys Gln Gln Ala Lys Phe Asp Glu Cys Val Leu Asp Lys Leu Gly Trp
                            120
Val Arg Pro Asp Leu Gly Glu Leu Ser Lys Val Thr Lys Val Lys Thr
    130
                        135
                                             140
Asp Arg Pro Leu Pro Glu Asn Pro Tyr His Ser Arg Pro Arg Pro Asp
145
                    150
                                        155
                                                             160
Pro Ser Pro Glu Ile Glu Gly Asp Leu Gln Pro Ala Thr His Gly Ser
                165
                                    170
Arg Phe Tyr Phe Trp Thr Lys
            180
<210> 5435
<211> 65
<212> PRT
<213> Homo sapiens
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Gly Thr Gly Cys Cys Ala Glu Gly Arg Pro Glu Ser Gln Ser Ile Phe

10

<400> 5435

```
Phe Thr Gly Ser Ala Gly Thr Gly Lys Ser Tyr Leu Leu Lys Arg Ile
                                25
Leu Gly Ser Leu Pro Pro Thr Gly Thr Val Ala Thr Ala Ser Thr Gly
                                                 45
         35
                             40
Val Ala Ala Cys His Ile Gly Gly Thr Thr Leu His Ala Phe Ala Gly
                         55
Lys
65
<210> 5436
<211> 48
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (18)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (42)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (44)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5436
His Xaa Thr Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser Thr Ala Val
 1
                  5
                        . 10
Gln Xaa Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala
             20
                                 25
```

Arg Xaa Arg Glu Leu Val Ser Ser Phe Xaa Phe Xaa Phe Phe His Gly $35 \hspace{1cm} 40 \hspace{1cm} 45$

```
<210> 5437
<211> 62
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (46)
<223> Xaa equals any of the naturally occurring L-amino acids
Glu Leu Trp Ser Pro Cys Leu Val Leu Phe Lys Thr Leu Cys Tyr Thr
                  5
                                     10
Gly Val Asp Pro Gly Leu Lys Val Ile Gln Phe Trp Gly Leu Ser Leu
                                 25
Arg Lys Arg Ile Leu Lys Tyr Leu Thr Phe Ala Asn Ile Xaa Lys Ile
                             40
Tyr Cys His Ile Asn Met Leu Leu Gly Pro Leu Leu Gly Pro
```

<210> 5438 <211> 163 <212> PRT <213> Homo sapiens

50

<400> 5438

Ser Phe Phe Phe Phe Ser Arg Ser His Val Ser Leu Leu Leu Pro Thr 1 5 10 15

60

55

Ala Thr Tyr Phe Ile Pro His Gly Ser Arg His Ser Ser Thr Leu Thr 20 25 30

Asn Phe Leu Thr Pro Ser Ser Phe Leu Glu Ile Ile Ser Ser Pro Cys 35 40 45

Ala Glu Thr Val Ile Ala Leu Ser Ala Glu Met Ala Val Ser Ser Gln 50 55 60

4825

Gln Gly Glu Ile Met Glu Ser Arg Ile Phe Phe Gln Gly Ser His Ala 65 70 75 His Phe Pro Thr Cys Met Asn Val Asp Thr Ala Ala Thr Val Leu Ala 85 90 Val Asn Val Asn Leu Ala Ser Asn His Cys Ser Gln Gly Asn Val Pro 105 100 Ile Arg Arg Arg Leu Ser Gly Thr Leu Ile Leu Thr Gly Arg Trp Asp Ile Leu Arg Asp Pro Glu Ala Gly Cys His Leu Leu Asn Phe Pro Glu 135 Gly Cys Leu Gly Ile Cys Phe Leu Phe Ile Leu Glu Leu Phe Phe Leu 145 150 155 Phe Met Gly <210> 5439 <211> 68 <212> PRT <213> Homo sapiens <220>

~220>

<221> SITE

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5439

Gln Gly Ile Leu Tyr Phe His Tyr Asn Gln Ile Ile Glu Ile Thr Cys
1 5 10 15

Val Lys Gly Leu Gln Glu Tyr Ile Gln Phe Leu Asn Ile Leu Ile Tyr
20 25 30

```
Leu Leu Ser Asp Asn Leu Ile Leu Leu Asn Tyr His Leu Pro Leu Ser
Tyr Phe Ile Ile Asn Ser Val Gln Phe Pro Pro Lys Lys Xaa Xaa Tyr
                         55
Leu Xaa Asn Ile
 65
<210> 5440
<211> 170
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (11)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (19)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (21)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (23)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (163)
<223> Xaa equals any of the naturally occurring L-amino acids
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4827

<400> 5440 Val Ile Pro Trp Arg Thr Xaa Ser Ala Asn Xaa Glu Xaa Asp Leu His 5 Tyr Leu Xaa Leu Xaa Thr Xaa Thr Trp Ser Gly Arg Ile Thr Ile Asn 25 Gly Glu Ser Pro Lys His Arg Ser Trp His Thr Leu Thr Pro Ile Ala 40 Asp Asp Lys Leu Phe Leu Cys Gly Gly Leu Ser Ala Asp Asn Ile Pro 55 Leu Ser Asp Gly Trp Ile His Asn Val Thr Thr Asn Cys Trp Lys Gln 70 Leu Thr His Leu Pro Lys Thr Arg Pro Arg Leu Trp His Thr Ala Cys 85 90 Leu Gly Lys Glu Asn Glu Ile Met Val Phe Gly Gly Ser Lys Asp Asp 100 105 Leu Leu Ala Leu Asp Thr Gly His Cys Asn Asp Leu Leu Ile Phe Gln 120 Thr Gln Pro Tyr Ser Leu Leu Arg Ser Cys Leu Asp Cys Ile Gly Lys 130 135 Asn Ser Ile Met Leu Glu Ser Gln Ile Ser Leu Leu Pro Pro Lys Leu 145 150 155 Leu Gln Xaa Val Leu Lys Lys Lys Lys 165 <210> 5441 <211> 120 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (111) <223> Xaa equals any of the naturally occurring L-amino acids <220>

<223> Xaa equals any of the naturally occurring L-amino acids

<221> SITE <222> (112)

<400> 5441

Ile Gly Ser Val Pro Ala Val Pro Asn Gly Gln Cys Ile Gly Lys His

1 5 10 15

Lys Lys Cys Asp His Asn Val Asp Cys Ser Asp Lys Ser Asp Glu Leu 20 25 30

Asp Cys Tyr Pro Thr Glu Glu Pro Ala Pro Gln Ala Thr Asn Thr Val 35 40 45

Gly Ser Val Ile Gly Val Ile Val Thr Ile Phe Val Ser Gly Thr Val 50 55 60

Tyr Phe Ile Cys Gln Arg Met Leu Cys Pro Arg Met Lys Gly Asp Gly 65 70 75 80

Glu Thr Met Thr Asn Asp Tyr Val Val His Gly Pro Ala Ser Val Pro 85 90 95

Leu Gly Tyr Val Pro His Pro Ser Ser Leu Ser Gly Ser Leu Xaa Xaa 100 105 110

Met Ser Arg Gly Lys Ser Met Ile 115 120

<210> 5442

<211> 55

<212> PRT

<213> Homo sapiens

<400> 5442

Asn Met Tyr Lys Asn Gly Tyr Lys Met Val Glu Ala Thr Arg Ser Val 1 5 10 15

Thr Gly Ile Ile His Ile Asn Thr Thr Lys Ile Gln Phe Asn Ala Lys 20 25 30

Leu Asn Asp Ile Ile Leu His Gln Asn Leu Phe His Thr Lys Ala His 35 40 45

Ala Ser Arg Val Ser Ile Arg
50 55

<210> 5443

<211> 125

<212> PRT

<213> Homo sapiens

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<220>
<221> SITE
<222> (73)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (84)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (105)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5443
Leu Leu Lys Arg Ser His Phe Asn Cys Phe Cys Tyr Ser Ile Tyr Cys
                 5
                                    10
His Ser Lys Tyr Ile Leu Thr Gln Asn Lys Leu Asn Asn Leu Cys Met
             20
Phe Val Cys Val Tyr Met His Thr Leu Phe Tyr Ile Lys Ile Leu Arg
                              40
Leu Tyr Ser His Cys Ala Leu Trp Asn Lys Ala Ile Tyr Ile Asn Val
Leu Tyr Val Tyr Val Leu Tyr Ile Xaa Lys Thr Phe His Leu Ile Tyr
                     70
                                          75
 65
Ile Cys Val Xaa Glu Tyr Met Cys Ala Cys Leu Ala Asp Ile Cys Ile
                 85
                                      90
Lys Tyr Lys His Ser Val Val Ile Xaa Ala Ile Cys Glu Ile Val Asn
                                 105
Phe Lys Ile Thr Ser Gly His Arg Leu Val Val Ile Ile \cdot
                             120
     . 115
<210> 5444
<211> 287
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (114)
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4830

<223> Xaa equals any of the naturally occurring L-amino acids <400> 5444 Gly Ala Met Ala Pro Lys Pro Gly Ala Glu Trp Ser Thr Ala Leu Ser 5 His Leu Val Leu Gly Val Val Ser Leu His Ala Ala Val Ser Thr Ala 25 Glu Ala Ser Arg Gly Ala Ala Gly Phe Leu Leu Gln Val Leu Ala Ala Thr Thr Leu Ala Pro Gly Leu Ser Thr His Glu Asp Cys Leu 50 55 Ala Gly Ala Trp Val Ala Thr Val Ile Gly Leu Pro Leu Leu Ala Phe 70 Asp Phe His Trp Val Asn Gly Asp Arg Ser Ser Ala Asn Leu Leu Leu 90 Gly Gly Gly Met Val Leu Ala Val Ala Gly Gly His Leu Gly Pro Glu 1.00 Ala Xaa Cys Gly Trp Ser Gly Asn Ala Val Gly Gly Arg Ser Asp His 115 120 Pro His Cys Ser Cys Leu His Gly Gln His Leu Trp Asp Val Gly Gly 135 Gly Asp Ala Gly Cys Gly Arg Pro Pro Glu Pro Ala Gly Gly Gln 150 155 Ala Ala Ala Thr Glu Gly Gly Cys Leu Ser Leu Gly Leu Gly Cys 165 175 Arg Gln Leu Gly Leu Leu Pro Gly Pro Ala Tyr Thr Ala Pro Pro Val 180 185 Gly Val Thr Val Gly Tyr Ser Gln Ala Gly Phe Leu Pro Cys Arg Thr 200 Leu Ser Leu Pro Pro Ala Cys Ser Trp Arg Leu Leu Pro Arg Gly Arg 210 215 Leu Phe Cys Leu Leu Lys Trp Val Cys Cys Thr Leu Thr Gly Gln Gly

Gln Ser Leu Gly Ala Val Leu Trp Pro Arg Val Gly Thr Cys Leu Asp

245

235

250

240

4831

Gln Asn Glu Arg Asp Arg Val Pro Asp Thr Phe Gly Gly Pro Asp Ser 260 265 270

Gly Leu Asp Thr Val Val Asp Pro Glu Lys Arg Pro Ser Leu Gln 275 280 285

<210> 5445

<211> 57

<212> PRT

<213> Homo sapiens

<400> 5445

Ser His Ala Cys Pro Leu Thr Phe Thr Arg Asn Ser Glu Lys Gln Ser 1 5 10 15

Thr Tyr Phe Ala Thr Gln Trp Ser Ser Ser Leu Asn Thr Phe Ile Gln 20 25 30

Arg Ser Thr Asn Tyr Asp Pro Pro Val Lys Ser Tyr Leu Ala Leu Val 35 40 45

Phe Val Asn Lys Val Leu Leu Glu His 50 55

<210> 5446

<211> 100

<212> PRT

<213> Homo sapiens

<400> 5446

Trp Cys Ser Arg Ala Val Pro Pro Pro Ser Leu Leu Pro Ala Ser Thr 1 5 10 15

Ser Pro Pro Arg Ser Val Pro Pro Pro Ser Phe Ser Leu Ser Leu Lys
20 25 30

Ser Val Ser Phe Gly Ser Pro Arg Ala Ser Leu Pro Arg Pro Ser Trp 35 40 45

Met Arg Pro Pro Ser Pro Lys Pro Ala Cys Phe Ala Val Ser Pro Gly 50 55 60

Ser Trp Lys Leu Ala Gly Ala Arg Gly Trp Arg Gly His Gly Gly Val
65 70 75 80

Gly Glu Gly Ser Leu Pro Phe Leu Val Arg Ser Ile Ile Val Asn Gly
85 90 .95

Cys Thr Leu Phe

4832

```
100
<210> 5447
<211> 118
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5447
Arg Ser Trp Gly Ser Xaa Trp Lys Gln Glu Asp Pro Ile Gln Gln Arg
                  5
                                     10
Pro Leu Arg Leu Val Leu His Phe Leu Arg Glu Leu Ser Val Gly Ser
             20
His His Pro Ala His Trp Leu Pro Pro Lys Pro Pro Pro Leu Thr Ser
                             40
Ala Asn Leu Leu Phe Gly Asp Pro Leu Ser Asp Pro Leu Cys Leu Pro
     50
                         55
Ser Trp Ser Ser Ser Trp Arg Ile Ser Gly Gln Arg Gly Gln Arg
```

Ser Phe Pro Ile Pro Pro Gln Arg Tyr Phe Leu Leu Gly Pro His Thr

Leu Thr Pro Ser Ser Glu Met Asn Thr Phe Leu Leu Leu Leu Leu Arg 100 105 110

Gln Ser Glu Thr Pro Ser 115

<210> 5448 <211> 55 <212> PRT <213> Homo sapiens

4833

Arg Phe Thr Glu Phe Arg Ser Leu Lys Val Tyr Ile Leu Phe Pro Tyr 20 25 30

Val Asp Lys Leu Val Ser Leu Leu Clu Tyr His Lys Val Phe Val
35 40 45

Lys Ile Thr Gln Val Ile Lys 50 55

<210> 5449

<211> 98

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5449

His Ala Phe Phe Leu Lys Leu Phe Arg Val Val Glu Ile Ala Ala Cys
1 5 10 15

His Ser Xaa His Thr Ser Ala Ala Lys Thr Gln Gly Gly His Val Tyr 20 25 30

Met Trp Gly Gln Cys Arg Gly Gln Ser Val Ile Leu Pro His Leu Thr 35 40 45

His Phe Ser Cys Thr Asp Asp Val Phe Ala Cys Phe Ala Thr Pro Ala 50 55 60

Val Ser Trp Arg Leu Leu Ser Val Gly Lys Lys Val Gln Gly His Phe 65 70 75 80

Thr Gln Gly Gly Met Val Leu Pro Thr Asp Gln Phe Ser Cys Val Phe 85 90 95

Ala Gly

<210> 5450

<211> 186

<212> PRT

<213> Homo sapiens

<220> <221> SITE <222> (3) <223> Xaa equals any of the naturally occurring L-amino acids <400> 5450 Gly Gly Xaa Asp Gln Gly Gln Glu Pro Gly Pro Leu Glu Gln Gln Arg Leu Ala His Leu Glu Asp Lys Leu Arg Leu Leu Ala Gln Ala Arg 25 Asp Glu Ala Gln Gly Ala Cys Leu Gln Gln Lys Gln Val Val Ala Glu 35 Ala Gln Thr Arg Val Ser Gln Leu Gly Leu Gln Val Glu Gly Leu Arg Arg Arg Leu Glu Glu Leu Gln Glu Leu Ser Leu Lys Asp Gln Glu 70 Arg Val Ala Glu Val Ser Arg Val Arg Val Glu Leu Gln Glu Gln Asn 85 90 95 Gly Arg Leu Gln Ala Glu Leu Ala Ala Gln Glu Ala Leu Arg Glu Lys 100 105 Ala Ala Ala Leu Glu Arg Gln Leu Lys Val Met Ala Ser Asp His Arg 120 Glu Ala Leu Leu Asp Arg Glu Ser Glu Asn Ala Ser Leu Arg Glu Lys 130 135 Leu Arg Leu Arg Glu Ala Glu Ile Ala Arg Ile Arg Asp Glu Glu Ala 150 155 160 Gln Arg Ala Ser Phe Leu Gln Asn Ala Val Leu Ala Tyr Val Gln Ala 175

<210> 5451

<211> 40

<212> PRT

<213> Homo sapiens

Ser Pro Val Arg Thr Leu Ser Pro Pro Lys

<400> 5451

Pro Met Ala Asn Pro Ile Leu Lys Leu Val Asn Ser Asp Gln Ser Tyr

4835

1 5 10 15 Phe Thr Tyr Pro Thr Gln Ser Gly Pro Lys Gln Ile Ala Gly Ser Ala 25 20 Ser Lys Pro Thr Phe Leu Pro Lys <210> 5452 <211> 69 <212> PRT <213> Homo sapiens <400> 5452 Leu Ser Arg Lys Leu Leu Leu Leu Arg Phe Lys Asn Glu Asn Arg Cys Glu Phe Ser Lys Ile Leu Lys Asn Asn Ser Val Lys Asn Ser Gly Ala 25 Val Lys Glu Ser Trp Met Glu Leu Glu Val Thr Ile Leu Ser Asp Ile 45 35 40 Ser Gln Lys Gln Thr Asn Ile Ala Cys Ser Gln Leu Phe Ala Gly Ser 55 Lys Ser Gln Asn Asn 65 <210> 5453 <211> 129 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (115) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (117) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (122)

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<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (123)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (127)
<223> Xaa equals any of the naturally occurring L-amino acids
Leu Glu Arg Gly Trp Cys Glu Ser Cys Leu Thr Thr Ala Pro Ser Pro
                                      10
Pro Cys Ala Ala Glu Gly Thr Pro Ala Ala His Arg Phe Gln Glu Ala
Leu Ser Asp Phe Trp Leu Ala Leu Glu Gln Leu Arg Gly His Ala Ala
Ile Asp Tyr Thr Gln Leu Gly Leu Arg Phe Lys Leu Gln Pro Gly Arg
                         55
Cys Tyr Thr Met Trp Arg Arg His Ser Ala Ser Trp Gly Ser Gly Gln
                     70
Arg Arg Gln Gln Pro Lys Gly Gly His Val Gln Val Ala Gly Gly Ser
Leu Asn Gly Leu Asp Ser Ala Leu Asp Gln Val Gln Arg Arg Gly Ser
            100
                                105
Leu Pro Xaa Gly Xaa Ser Pro Gly Arg Xaa Xaa Pro Ala Pro Xaa Trp
        115
                            120
Thr
<210> 5454
<211> 84
<212> PRT
<213> Homo sapiens
<400> 5454
Trp Ile Pro Arg Ala Ala Gly Ile Arg His Glu Ser Gly Asp Lys Leu
                                     10
```

4837

Lys Leu Asp Gln Thr His Leu Glu Thr Val Ile Pro Ala Pro Gly Lys
20 25 30

Arg Ile Leu Val Leu Asn Gly Gly Tyr Arg Gly Asn Glu Gly Thr Leu 35 40 45

Glu Ser Ile Asn Glu Lys Thr Phe Ser Ala Thr Ile Val Ile Glu Thr 50 55 60

Gly Pro Leu Lys Gly Arg Arg Val Glu Gly Ile Gln Tyr Glu Asp Ile 65 70 75 80

Ser Lys Leu Ala

<210> 5455

<211> 58

<212> PRT

<213> Homo sapiens

<400> 5455

Ile Phe Leu Leu Phe Ser Thr Phe Pro Gln Ile His Val Ser Glu Val 1 5 10 15

Leu Ser Phe Gly His His Tyr Leu Ser Thr Leu Arg Asn Met Pro Ile 20 25 30

Asp Glu Val Asn Ile Leu Gly Ile Gln Arg Ile Tyr Gly Asn Val Asp 35 40 45

Lys Asp Ile Tyr Gln Asp Lys Ala Leu Glu 50 55

<210> 5456

<211> 46

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

```
<400> 5456
Glu Thr Thr Lys Gln Thr Gln Lys Lys Glu His Asn Asn Arg Asp Lys
Ile Lys Phe Arg Gln Gln Xaa Thr Glu Xaa Ile Leu Lys Thr Arg Ile
             20
                                 25
Cys Ser Leu Arg Ile Phe Phe Ile Ile Lys Met Ile Phe Gly
<210> 5457
<211> 64
<212> PRT
<213> Homo sapiens
<400> 5457
Asn Pro Phe Ala Ser Gly Gln Phe Gln Thr Arg Ile Leu Ala Cys Pro
                  5
Ala Ser His Gly Met Pro Leu Pro Tyr Cys Gln Cys Asp Leu Ser Glu
                                25
Thr Ala Tyr Leu Ile Leu Ser Phe Pro Gly Ala Ala Ser His Leu Pro
                             40
Gln Asp Leu Asn Phe Lys Leu Tyr Ser Ser Pro His Ser Pro Gln Gln
     50
<210> 5458
<211> 73
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (26)
<223> Xaa equals any of the naturally occurring L-amino acids
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (55)

4839

<400> 5458

Val Leu Val Ser Leu Pro Val Pro Thr Gln Ile Ala Ser Gln Asn Phe 1 5 10 15

Asp Pro Ala Thr Val Ser Val Ala Thr Xaa His Lys Gly Ala Glu Pro
20 25 30

Ser Arg Gly Thr Ala Trp Gly Pro Val Ala Lys Arg Leu Gln Glu 35 40 45

Leu Met Thr Leu Met Met Xaa Gly Asp Lys Arg Ile Ser Ala Thr Leu 50 55 60

Lys Ala Leu Ser Asn Gly His His Ser
65 70

<210> 5459

<211> 93

<212> PRT

<213> Homo sapiens

<400> 5459

Pro Lys Val Leu Gly Leu Gln Ala Glu Pro Pro Arg Pro Ala Leu Leu 1 5 10 15

Leu Leu Arg Phe Glu Asn Arg Cys Leu Asn Ala Pro Asp Ser Ala 20 25 30

Leu Leu Thr Gln Arg Phe Pro His Leu Ile Tyr Ser Val Pro Ala Gln
35 40 45

Ser Pro Phe Ser Leu Met Pro Arg Ala Gly Phe Ser Leu Pro Ala Pro 50 55 60

Arg Phe Trp Ser Pro Pro Ser Val Leu Gly Pro Ser Cys Pro Leu Ser 65 70 75 80

Gly Phe Arg Pro Ser Gln His Ser Leu Ala Ser Leu Pro 85 90

<210> 5460

<211> 50

<212> PRT

<213> Homo sapiens

<400> 5460

Gly Arg Pro Phe Gly Asn Leu Cys Leu Asn Ser Asn Arg Arg Glu Asn

4840

1 5 10 15 Val Gln Ala Met Gly Leu Leu Pro Ile Ser Leu Cys Phe Ala Ile Pro 20 25 Trp Asp Lys Gly Thr Thr Ser Gly Ser Gln Ser Pro Asn Gln Tyr His 40 Arg Val 50 <210> 5461 <211> 67 <212> PRT <213> Homo sapiens <400> 5461 Glu Pro Ser Ser Val His Lys Lys Pro Ile Glu Ser Arg Ser His Phe 5 Ile Arg Trp Gln Val Ser Trp Ala Ser Leu Leu Ala Ser Pro Lys Arg 25 Trp Cys Cys Gln Asp Val Leu Glu Val Ile Met Gly His Thr Glu Ala 40 Leu Ser Leu His Arg Leu Lys Cys His Gln Asn Trp Pro Leu Pro Asn 50 55 Ile Pro His 65 <210> 5462 <211> 62 <212> PRT <213> Homo sapiens <400> 5462 Glu Arg Glu Ile Leu Met Ala Pro Met Ala Arg Ile Thr Ser Leu 5 10 Lys Phe Arg Ala Cys Val Asn Arg Phe Cys Phe Leu Val Ser Glu Arg 20

Phe Ser Tyr Ser Thr Val Leu Ile Cys Phe Ser Lys Pro Ser Asp Leu

45

40

4841

Cys Ile Phe Asn Arg Pro Gln Asn Asn Val Lys Tyr Met Ala 50 . 55 60

<210> 5463

<211> 60

<212> PRT

<213> Homo sapiens

<400> 5463

Lys Tyr Gln Ile Ile Leu Trp Asn Val Lys Ala Phe Leu Lys Pro 1 5 10 15

Ser Ile Cys Phe Ile Val Ile Ser Val Ala Asn Met Asp Phe Ile Phe 20 25 30

Lys Met Met Phe Tyr Ile Ile Phe Pro Tyr Lys Leu Phe Glu Lys Gln 35 40 45

Phe Asn Asn Ser Met Ile Val Val Ala Pro Leu Asn 50 55 60

<210> 5464

<211> 44

<212> PRT

<213> Homo sapiens

<400> 5464

Trp Gln Ser Asn Phe Phe Cys Leu Phe Pro Arg Glu Ser Trp Glu Tyr
1 5 10 15

Pro Glu Leu Gly Ala Leu Met Ile Leu Phe Gln Leu Trp Cys Leu Lys 20 25 30

Lys Asn Tyr Lys Ser Ile Leu Asn Gly Leu Ser Ser 35 40

<210> 5465

<211> 20

<212> PRT

<213> Homo sapiens

<400> 5465

Glu Cys Lys Leu Val Gln Pro Ser Trp Lys Thr Gly Trp Gln Phe Leu 1 5 10 15

```
Lys Asp Leu Cys
             20
<210> 5466
<211> 58
<212> PRT
<213> Homo sapiens
<400> 5466
Gln Lys Ile Glu Leu Ser Phe Arg Val Ser Lys Lys Val Leu Tyr Ser
                                     10
Cys Cys Thr Pro Gly Ser Trp Gln Gly Gly Asp Phe Cys Pro Arg Glu
Cys Ser Phe Leu Cys Ile Ile Ala Lys Gln Phe Cys Ser Cys Ile Leu
         35
                             40
Lys His His Trp Met Asn Phe Phe Pro Leu
<210> 5467
<211> 83
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (45)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (47)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
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4843

<221> SITE <222> (83) <223> Xaa equals any of the naturally occurring L-amino acids <400> 5467 Leu Leu Ile Glu Thr Cys Xaa Val Glu Lys Leu Phe Leu Ser Leu Leu 10 Ala Ile Gln Val Ser Ser Phe Met Lys Trp Leu Phe Met Ser Phe Ala His Phe Tyr Ile Xaa Leu Phe Phe Phe Pro Ala Xaa Leu Xaa Glu 40 35 Leu Tyr Ile Leu Ser Ile Leu Ile Ile Tyr Arg Lys Leu Phe Gly Cys 55 His Tyr Leu Leu Val Asn Val Phe Cys Leu Trp Ile Ser Phe Ile 75 70 Ile Tyr Xaa <210> 5468 <211> 79 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (21) <223> Xaa equals any of the naturally occurring L-amino acids <400> 5468 Gln Ala Leu Thr Leu Cys Lys Gly Gly Arg Gly His Ser Trp Ala 15 Gly Gly Val Gly Xaa Gln Asp Gly Cys Pro Ser Leu Pro Ile Phe Ser 25 20 Trp Leu Trp Asp Gln Arg Leu Val Leu Gly Ile Trp Thr Trp Arg Pro Arg Ala Ile Gly Glu Gly Leu Lys Pro Val Leu Ser Ala Ala Cys Cys

55

70

Glu Trp Pro Ser Arg Val Met Thr Glu Leu Phe Trp Gly Arg Arg

50

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  <213> Homo sapiens
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 Ala Pro Arg Leu Gly Arg Arg Arg Gln Arg Leu Glu Glu Arg Glu
 Arg Arg Phe Pro Cys Pro Gly Pro Arg Glu Gly Arg Pro Thr Ala Ala
                               40
 Met Glu Gln Leu Ser Asp Glu Glu Ile Asp His Gly Ala Glu Glu Asp
      50
                           55
                                               60
 Ser Asp Lys Glu Asp Gln Asp Leu Asp Lys Met Phe Gly Ala Trp Leu
```

PCT/US00/26524 WO 01/22920

4845

65					70					75					80
Gly	Glu	Leu	Asp	Lys 85	Leu	Thr	Gln	Ser	Leu 90	Asp	Ser	Asp	Lys	Pro 95	Met
Glu	Pro	Val	Lys 100	Arg	Ser	Pro	Leu	Arg 105	Gln	Glu	Thr	Asn	Met 110	Ala	Asn
Phe	Ser	Tyr 115	Arg	Phe	Xaa	Ile	Туг 120	Asn	Leu	Asn	Glu	Ala 125	Leu	Asn	Gln
Gly	Glu 130	Thr	Val	Asp	Leu	Asp 135	Ala	Leu	Met	Ala	Asp 140	Leu	Cys	Ser	Ile
Glu 145	Gln	Glu	Leu	Ser	Ser 150	Ile	Gly	Ser	Gly	Asn 155	Ser	Lys	Arg	Gln	Ile 160
Thr	Glu	Thr	Lys	Ala 165	Thr	Gln	Lys	Leu	Хаа 170	Xaa	Xaa	Xaa	His	Thr 175	Leu
Xaa	His	Gly	Thr 180	Leu	Lys	Gly	Leu	Ser 185	Ser	Ser	Ser	Asn	Arg 190	Ile	Ala
Lys	Pro	Ser 195	His	Ala	Ser	Tyr	Ser 200	Leu	Asp	Asp	Val	Thr 205	Ala	Gln	Leu
Glu	Gln 210	Ala	Ser	Leu	Ser	Met 215	Asp	Glu	Ala	Ala	Gln 220	Gln	Ser	Val	Leu
Glu 225	Asp	Thr	Lys	Pro	Leu 230	Val	Thr	Asn	Gln	His 235	Arg	Arg	Thr	Ala	Val 240
Ser	Arg	His	Ser	Glu 245											
<210> 5470 <211> 29 <212> PRT <213> Homo sapiens															
<400> 5470															
			Asp	Cys 5	Glu	His	Pro	Ser	Туг 10		Gly	Leu	Tyr	Arg 15	Met
Ala	Leu	Ser	Lys 20	Asn	Tyr	Ser	Cys	Ile 25	Thr	Val	Val	Phe			

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<211> 81
<212> PRT
<213> Homo sapiens
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Ala Phe Pro Leu Pro Ser Pro Gly Leu Thr Pro His Pro Ile Pro Gln
                                    10
Lys Val Arg Arg Ala Gly Cys Val Asp Gly Ile Pro Glu Asn Glu Pro
                                 25
Val Glu Ser Ile Trp Pro Trp His Val Asn Ser Ser Leu Phe Pro Ala
                            40
Val Ile Thr Thr Leu Phe Phe Pro Gln Gly Leu Asn Cys Thr Val Lys
Asn Ser Lys Ser Ser Phe Ser Val Leu Leu Val Ala Phe Leu Ile
                    70
                                         75
Lys
<210> 5472
<211> 53
<212> PRT
<213> Homo sapiens
<400> 5472
Ser Cys Ser Phe Gly Val Cys Glu Gln Thr Gln Asp Ile Ile Ile Lys
His His Pro Ser Ile Lys Gly Leu Phe Tyr Asn Met Cys Cys Glu Ile
             20
                                 25
Asn Leu Ser Gly Lys Val Trp Cys Asn Glu Leu Phe His Ser Met Val
         35
                            40
                                                45
Ile Asp Ala Val Lys
    50
<210> 5473
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<211> 105 <212> PRT

<213> Homo sapiens

4847

Tyr Ala Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser

10 5 20 25 Phe Phe Phe Val Val His Asn His Leu Phe Tyr Leu Lys Thr Cys Leu 40 His Cys Ile Glu His Gln His Arg Cys Asp Gln Glu Thr His Ser Pro 55 Val Pro Ala Ala Leu Gly Pro Val Tyr Asp Leu Gly Trp Thr Val Ile 65 Phe His Ser Glu Gly Gly Lys Asp Arg Lys Glu Lys Met Ala Ile Ile 90 85 Pro Thr Pro Val Gln Glu Ser Glu Gln 100 <210> 5474 <211> 122 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (25) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (34) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (50) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (51) <223> Xaa equals any of the naturally occurring L-amino acids <400> 5474 Gly Phe Ile His Cys Gln Met Leu Val Pro Ile Lys Gln Cys Cys

<400> 5473

4848

1 10 15 Leu Pro Thr Pro Thr Phe Cys Val Xaa Gly Lys Phe Trp Lys Ser Arg 25 Gly Xaa His Ala Lys Arg Leu Ser Thr Gly Leu Phe Leu Val Ser Ala 40 Leu Xaa Xaa Leu Cys Glu Glu Val Ala Ile Tyr Gly Phe Trp Pro Phe Ser Val Asn Met His Glu Gln Pro Ile Ser His His Tyr Tyr Asp Asn 70 Val Leu Pro Phe Ser Gly Phe His Ala Met Pro Glu Glu Phe Leu Gln 85 90 Leu Trp Tyr Leu His Lys Ile Gly Ala Leu Arg Met Gln Leu Asp Pro 100 Cys Glu Asp Thr Ser Leu Gln Pro Thr Ser 115 120 <210> 5475 <211> 237 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (109) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (237) <223> Xaa equals any of the naturally occurring L-amino acids <400> 5475 Tyr Gln Ser Ile Ala Leu Tyr Phe Glu Gly Glu Lys Arg Tyr Leu Gln Ala Gly Lys Phe Phe Leu Leu Cys Gly Gln Tyr Ser Arg Ala Leu Lys His Phe Leu Lys Cys Pro Ser Ser Glu Asp Asn Val Ala Ile Glu Met 35 40 45 Ala Ile Glu Thr Val Gly Gln Ala Lys Asp Glu Leu Leu Thr Asn Gln

4849

55

60

Leu Ile Asp His Leu Leu Gly Glu Asn Asp Gly Met Pro Lys Asp Ala 70 75 Lys Tyr Leu Phe Arg Leu Tyr Met Ala Leu Lys Gln Tyr Arg Glu Ala 90 Ala Gln Thr Ala Ile Ile Ile Ala Arg Glu Glu Gln Xaa Ala Gly Asn 100 105 Tyr Arg Asn Ala His Asp Val Leu Phe Ser Met Tyr Ala Glu Leu Lys 120 125 115 Ser Gln Lys Ile Lys Ile Pro Ser Glu Met Ala Thr Asn Leu Met Ile 135 Leu His Ser Tyr Ile Leu Val Lys Ile His Val Lys Asn Gly Asp His 150 155 Met Lys Gly Ala Arg Met Leu Ile Arg Val Ala Asn Asn Ile Ser Lys 165 170 Phe Pro Ser His Ile Val Pro Ile Leu Thr Ser Thr Val Ile Glu Cys 180 185 His Arg Ala Gly Leu Lys Asn Ser Ala Phe Ser Phe Ala Ala Met Leu 200 Met Arg Pro Glu Tyr Arg Ser Lys Ile Asp Ala Lys Tyr Lys Lys Lys 210 215 Ile Glu Gly Met Val Gln Glu Thr Arg Tyr Ile Leu Xaa 230 235 225 <210> 5476 <211> 142 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (19) <223> Xaa equals any of the naturally occurring L-amino acids <400> 5476 Gly Gly Ala Gly Ala Arg Gly Gly Gly Ala Leu Trp Val Thr Glu Gly 10

4850

Val Lys Xaa Pro Gly Pro Val Ser Gly Gln Cys Arg Lys Ser Gln Pro 20 25 30

His Ala Cys Gly Glu Ile Pro Cys Arg Ala Pro Pro Thr Met Asp Thr 35 40 45

Ser Gly Pro Leu Arg Ser Ser Lys Ala Val Ser Ser Phe Pro Leu Gln 50 55 60

Gln Arg Gly Val Pro Ser Ser Val Lys Gln Pro Phe Leu Phe Leu Glu 65 70 75 80

Ser Tyr Lys Trp Arg Pro Lys Ser Val Pro Met Leu Arg Gln Gly Pro 85 90 95

Gly Cys Ser Phe Leu Ser Gly Asn Arg Leu Glu Leu Phe Leu Trp Asp 100 105 110

Met Pro Pro Arg Pro Ala Leu Lys Gly Cys Ser Ser Leu Thr Thr Trp 115 120 125

Asn Gln Thr Pro Pro Ser Phe Val Tyr Lys Gly Asn Lys Glu 130 135 140

<210> 5477

<211> 41

<212> PRT

<213> Homo sapiens

<400> 5477

Gly Arg Lys Leu Pro Glu Glu Glu Gly Gly Lys Glu Ile Lys Asn Thr

1 5 10 15

Leu Lys Val Cys Gln Lys Lys Glu Leu Tyr Phe Leu Lys His Ser Arg 20 25 30

Lys Met Met Ser Phe Gln Leu Leu Ile 35 40

<210> 5478

<211> 64

<212> PRT

<213> Homo sapiens

<400> 5478

Lys Ser Ile Val Val Leu Val Leu Ser Trp Ile Ile Val Gln Lys

1 5 10 15

4851

Glu Val Gln Pro Pro Asp Asn His Ile Phe Thr Val Met Asn Gly Lys
20 25 30

Thr Lys Cys Arg Ala Gln Leu Thr Gln Arg Lys Lys Gly Ser Lys Asp 35 40 45

Lys Leu Trp His Asn Leu Ala Ala Lys Phe Leu Pro Ser Thr Asp Phe 50 55 60

<210> 5479

<211> 48

<212> PRT

<213> Homo sapiens

<400> 5479

Cys Ile Ile Leu Arg Gly Phe Phe Arg Ala Val Leu Thr Glu Leu Ser 1 5 10 15

Ile Asn Leu His Ser Ser Gly Arg Leu Leu Lys Leu Ala Gly His Asn 20 25 30

Glu Ile Gly Lys Ser Arg Val Leu Lys Ser Ile Ala Trp Pro Ser Ala 35 40 45

<210> 5480

<211> 68

<212> PRT

<213> Homo sapiens

<400> 5480

Lys Leu Leu Cys Pro His Leu Arg Glu Glu Gly Ser Ser Asn Asn Thr 1 5 10 15

Thr Met Cys Lys Ala Gly Ser Glu Ile Leu Leu Ser Pro Leu Pro Ser 20 25 30

Cys Asn Pro Ser Leu Pro His Leu Ser Cys Met Cys Ile Thr Met Leu 35 40 45

Phe Cys Phe Leu Met Lys Met Arg Leu Cys Ile Leu Phe Asp Asn Leu

4852

50 55 60

Phe Gln Ile Lys 65

<210> 5481

<211> 101

<212> PRT

<213> Homo sapiens

<400> 5481

Pro Leu Ser Thr Pro His Pro Leu Arg Arg Gly Pro Arg Ser Tyr Pro 1 5 10 15

Thr Val His Leu Pro Arg Gly Cys Ser Glu Leu Ala Met Ala Ala Thr 20 25 30

Ala Ala Thr Ala Ala Asp Pro Arg Ser Gly Ser Leu Arg Arg Gly Val

Ala Ala Leu Pro Arg Pro Pro Arg Gln Pro Glu Gln Leu Gln Ser Thr 50 55 60

Gly Leu Gly Ser Glu Thr Phe Lys Val Lys Gln Ala Glu Trp Gly Asp
65 70 75 80

Arg Thr Ile Ser Pro Pro Pro Gly Ala Pro Gly Leu Ser Leu Gly Gly 85 90 95

Pro Pro Leu Ala Pro 100

<210> 5482

<211> 87

<212> PRT

<213> Homo sapiens

<400> 5482

Arg Ile His Glu Lys Tyr Glu Ile Trp Phe His Pro Val Arg His Phe 1 5 10 15

Asn Arg Glu Asp Gln Asn Val Thr Trp Gln Leu Gly Asn Asn Leu Thr 20 25 30

Ser Leu Ala Val Gly Leu Asn Phe Leu Ile Ile Asp Pro Gly Ile Phe 35 40 45

4853

Gln Pro Glu Thr Gln Leu Ser Gly Arg Gln Thr Asn Cys Thr Thr Pro 50 55 60

Thr Ile Ser Trp Thr Leu Lys Phe Cys Leu Leu Gln Ser Ile Val Ser 65 70 75 80

Phe Lys Ala Pro Val Leu Ala 85

<210> 5483

<211> 59

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5483

Thr Pro Ile Met Xaa Asp Glu Phe Val Met Arg Asp Asn Leu Glu Val 1 5 10 15

Val Phe Thr His Tyr Ala Thr Ile Lys Gly Ser Thr Val Glu Arg Ile 20 25 30

Leu Thr His Ser Val Thr Asn Gly Thr His Arg Gln His Glu Phe Ala 35 40 45

Pro Tyr Met Thr Glu Val Ile Gln Gly Phe Leu
50 55

<210> 5484

<211> 240

<212> PRT

<213> Homo sapiens

<400> 5484

Val Thr Thr Lys Phe Val Arg Thr Ser Thr Asn Lys Val Lys Cys Pro 1 5 10 15

Val Phe Val Val Arg His Ser Met Glu Asn Leu Phe Glu Lys Asn Lys 20 25 30

Ile Arg Ala Ser Ile Ser Tyr Lys Trp Thr Pro Glu Gly Arg Arg Leu
35 40 45

Val Thr Gly Ala Ser Ser Gly Glu Phe Thr Leu Trp Asn Gly Leu Thr Phe Asn Phe Glu Thr Ile Leu Gln Ala His Asp Ser Pro Val Arg Ala 75 Met Thr Trp Ser His Asn Asp Met Trp Met Leu Thr Ala Asp His Gly Gly Tyr Val Lys Tyr Trp Gln Ser Asn Met Asn Asn Val Lys Met Phe 105 Gln Ala His Lys Glu Ala Ile Arg Glu Ala Arg Phe Ile His Asn Ile 120 Pro Phe Ser Val Val Pro Ile Val Met Val Lys Leu Phe Ser Lys Cys 135 Ile Leu Gly Ala Glu Met His Gly Leu Cys Gln Phe Leu Gly Asn Phe 150 Leu His Pro Ile Asn Thr Ile Phe Phe Phe Val Phe Thr His Ser Pro 165 170 Phe Cys Trp His Leu Ser Glu Val Val Leu Ser Arg Tyr Gln Pro Leu 180 190

Gln Tyr Val Arg Asp Val Leu Ser Ala Ala Phe Cys Thr Gly Phe Leu 195 200 205

Phe Ser Phe Met Ile Asn Asn Val Tyr Thr Leu Phe Leu Phe Ile Ile 210 215 220

Tyr Cys Val Arg Gln Glu Tyr Phe Ile Pro Asn Lys Glu Phe Ser Leu 225 230 235 240

<210> 5485

<211> 47

<212> PRT

<213> Homo sapiens

<400> 5485

Asn Glu Ala Phe Ile Tyr Val Phe Arg Cys His Cys Ser Leu Ser Glu

1 5 10 15

Leu Ala Val His Ile Ser Leu Pro Leu Val Leu Ser Thr Asp Phe Phe

4855

20 25 30

Leu Lys Lys Arg Gly Thr Val Tyr His Ser Ser Thr Val Leu Leu 35 40 45

<210> 5486

<211> 72

<212> PRT

<213> Homo sapiens

<400> 5486

Tyr Glu Ala Lys Thr Lys Ser Trp Lys Ser Glu Gln Val Gln Trp Phe
1 5 10 15

Gly Arg Gly Asn Glu Glu Gln Arg Arg Cys Gln Pro Leu Leu Gln Thr 20 25 30

Leu Trp Tyr His Trp Phe Gly Arg Lys Asn Asn His His Leu Arg Gly
35 40 45

Pro Val Gly Lys Pro Cys Pro His Gly Lys Ala Ile Phe Phe Arg Leu 50 55 60

His Phe Ser Trp Tyr Tyr Val Tyr 65 70

<210> 5487

<211> 75

<212> PRT

<213> Homo sapiens

<400> 5487

Leu Thr Cys Tyr Val Thr Val Ile Tyr Leu Ser Ile Ser Asn Pro Lys
1 5 10 15

Ala Cys Gln Lys Ala Phe Phe Arg Glu Asn His Phe Thr Phe Val Val 20 25 30

Lys Leu Leu Ile Ala Thr Leu Lys Asn Ile His Val Cys Ile His Arg 35 40 45

Asn Ile Phe Ser Gln Tyr Leu Tyr Asp Ser Leu Thr Val Ile Val Leu 50 55 60

Ser Glu Leu Leu Cys Ala Ser Asp Lys Asn Lys 65 70 75

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<210> 5488
 <211> 110
 <212> PRT
<213> Homo sapiens
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Gly Pro Arg Arg Thr Leu Ala Ala Leu Pro Leu Ser Arg Val Ser Ala
                                      10
Gly Ser Gly Ser Ala Ser Pro Gly Gln Leu Arg Glu Ser Leu Ala Arg
             20
                                                      30
Ile Pro Ala Ser Thr Leu Phe Leu Ala Ala Lys Val Thr Val Pro Phe
                              40
Ala Pro Ala Leu Ser Asp Pro Pro Arg Ile Pro Arg His Arg Glu Thr
Arg Lys Gly Xaa Gly Ser Gly Gly Gly Pro Gly Arg Ile Ala Leu Gln
 65
                     70
                                          75
Ala Ala Leu Arg Gly Pro Ala Pro Ala Thr Ala Leu Thr Ser Glu Arg
                 85
                                      90
Arg Asn Trp Gly Glu Xaa Phe Lys Ser Leu Arg Xaa Arg Cys
            100
                                 105
<210> 5489
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<211> 122 <212> PRT

<213> Homo sapiens

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<400> 5489
Ser Gly Arg Gly Ser Pro Gln Trp Thr Arg Leu Pro His Pro Ala Glu
                                     10
Val Gly Gly His Glu Glu Met Gly Cys Arg Leu Leu Ser Glu Leu
                                 25
Pro Ser Thr Asn Gly Val Gly Val Xaa Asp Leu Pro Arg His Xaa Phe
                             40
Phe Thr Phe Gly Lys Met Glu Gly Asp Gly Gly Gly Ile Pro Cys Ser
     50
Leu Cys Cys Ala Asp Thr Leu Glu Lys Xaa Leu Pro Ser Val Glu Gln
                     70
                                          75
 65
Asn Pro Leu Trp Arg Asn Ala Ala Val Leu Asp Leu Glu Ala Glu Gly
Val Ser Ile Leu Gly Ile Cys Leu Pro Leu Pro Ile Trp Met Pro His
            100
                                105
                                                     110
Leu Ala Val Ser Leu Met Val Ile Leu Phe
        115
                            120
<210> 5490
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<212> PRT
<213> Homo sapiens
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<400> 5490 Arg Leu Phe Ser Leu Xaa Gly Glu Cys His Lys Leu Leu Phe Cys Ile Ser Thr Ala Cys Gln Ala Leu Ser Ala Ser Ser Asn Leu Ala Leu Thr 20 25 Ala Thr Gly Ser Arg Cys Pro Ile Phe Gln Ser Lys Asp Arg Gly Val 40 Lys Phe Lys Tyr Arg Phe Ser Asp Ile Asn Leu Cys Asp Asp Leu Ile Glu Ala Gly Phe Ser Ser Ile Thr Val Leu Val Pro Ser Leu Leu Tyr 65 70 75 Gly Asn Glu Asn Lys Glu Thr Tyr Phe Leu Ala Cys Leu Lys Lys 85 90 Lys <210> 5491 <211> 294 <212> PRT <213> Homo sapiens <400> 5491 Thr Tyr Thr Ile His Ala Asp Gly Thr Gly Ser Asn Met Asn Ile Asn 10 Asp Gly Gly Arg Arg Phe Glu Asp Asn Glu His Thr Leu Arg Ile 25 Tyr Pro Gly Ala Ile Ser Glu Gly Thr Ile Tyr Cys Pro Ile Pro Ala 35 40 Arg Lys Asn Ser Thr Ala Ala Glu Val Ile Glu Ser Leu Ile Asn Lys 50 Leu His Leu Asp Lys Thr Lys Cys Tyr Val Leu Ala Glu Val Lys Glu Phe Gly Glu Glu Trp Ile Leu Asn Pro Thr Asp Cys Pro Val Gln 90

Arg Met Met Leu Trp Pro Arg Met Ala Leu Glu Asn Arg Leu Ser Gly

105

110

4859

Arg Met Met Glu Arg Gly Phe Leu Pro Gln Pro Gln Gln Lys Asp Phe 145 150 155 160

Asp Asp Leu Cys Ser Leu Pro Asp Leu Asn Glu Lys Thr Leu Leu Glu 165 170 175

Asn Leu Arg Asn Arg Phe Lys His Glu Lys Ile Tyr Thr Tyr Val Gly 180 185 190

Ser Ile Leu Ile Val Ile Asn Pro Phe Lys Phe Leu Pro Ile Tyr Asn 195 200 205

Pro Lys Tyr Val Lys Met Tyr Asp Asn His Gln Leu Gly Lys Leu Glu 210 220

Pro His Ile Tyr Ala Val Ala Asp Val Ala Tyr His Ala Met Leu Gln 225 230 235 240

Arg Lys Lys Asn Gln Cys Ile Val Ile Ser Gly Glu Ser Gly Ser Gly 245 250 255

Lys Thr Gln Ser Thr Asn Phe Leu Ile His His Leu Thr Ala Leu Ser 260 265 270

Gln Lys Gly Phe Ala Ser Gly Val Glu Gln Ile Ile Leu Gly Ala Gly 275 280 285

Pro Val Leu Glu Ala Val 290

<210> 5492

<211> 85

<212> PRT

<213> Homo sapiens

<400> 5492

Pro Tyr Leu Arg Arg Arg Asp Thr Gln Asp Lys Leu Gln Val Val Ser

1 5 10 15

Arg Phe Thr Phe Tyr Phe Glu Asp Pro Leu Leu Pro Gln Val Pro Asp 20 25 30

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Leu Glu Asn Glu Pro Pro Leu Ser Gly Leu Ala Ser Pro Gln Pro Arg
                              40
 His Arg Leu Ala Gln Gly Ser Ser Ser Trp Leu Ser Trp Asn Leu His
      50
                          55
                                               60
 Phe Leu Thr Thr Arg Lys Arg Ser Pro Glu Leu Thr Lys Asn Asn Ile
                      70
                                          75
 Leu Leu Thr Trp Glu
 <210> 5493
 <211> 274
 <212> PRT
 <213> Homo sapiens
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<223) > A6	aa ec	luais	any	, 01	cne	naci	iralı	.y	curi	ing	D-011	1110	acio	ເລ
<400 His 1			Glu	Ser 5	Trp	Tyr	Ala	Cys	Arg 10	Туг	Arg	Ser	Gly	Ile 15	Pro
Gly	Ser	Thr	His 20	Ala	Ser	Gly	Pro	Thr 25	Ser	Pro	Pro	Ala	Arg 30	Met	Ala
Pro	Pro	Gly 35	Pro	Ala	Ser	Ala	Leu 40	Ser	Thr	Ser	Ala	Glu 45	Pro	Leu	Ser
Arg	Ser 50	Xaa	Phe	Arg	Lys	Phe 55	Leu	Leu	Met	Leu	Cys 60	Ser	Leu	Leu	Thr
Ser 65	Leu	Tyr	Val	Phe	Туr 70	Cys	Leu	Ala	Glu	Arg 75	Cys	Gln	Thr	Leu	Ser 80
Gly	Pro	Val	Val	Gly 85	Leu	Ser	Gly	Gly	Gly 90	Glu	Glu	Ala	Gly	Ala 95	Pro
Gly	Gly	Gly	Val 100	Leu	Ala	Gly	Pro	Arg 105	Glu	Leu	Ala	Val	Trp 110	Pro	Alá
Ala	Ala	Gln 115	Arg	Lys	Arg	Leu	Leu 120	Gln	Leu	Pro	Gln	Trp 125	Arg	Xaa	Arg
Arg	Xaa 130	Pro	Ala	Pro	Arg	Xaa 135	Asp	Gly	Glu	Glu	Ala 140	Ala	Trp	Glu	Glu
Glu 145	Ser	Pro	Gly	Leu	Ser 150	Gly	Val	Arg	Ala	Ala 155	Pro	Gly	Pro	Glu	Ala 160
Pro	Trp	Pro	Arg	Pro 165	Arg	Arg	Gly	Pro	Trp 170	Arg	Cys	Ser	Trp	Thr 175	Ly
Ala	Ala	Ser	Ser 180	Cys	Arg	Ser	Ile	Ile 185	Ile	Gly	Xaa	Lys	Lys 190	Gly	Gl
Thr	Arg	Ala 195	Leu	Leu	Glu	Phe	Leu 200	Arg	Val	His	Pro	Asp 205	Val	Arg	Ala
Val	Gly 210		Glu	Pro	His	Phe 215	Phe	Asp	Arg	Ser	Туг 220		Lys	Gly	Le

Ala Trp Tyr Arg Asp Leu Xaa Pro Arg Thr Leu Glu Gly Gln Ile Thr 225 230 235 240

Met Glu Lys Lys Xaa Ser Tyr Ser Ser Ser Gly Lys Pro Pro Arg Ala 245 250 255

Ser Trp Ala Cys Ser Lys Asp Asn Lys Leu Ile Arg Trp Leu Xaa Gly 260 265 270

Asn Arg

<210> 5494

<211> 66

<212> PRT

<213> Homo sapiens

<400> 5494

Gly Val Gly His Ser Glu Leu Thr Ser Met Phe Asn Thr Ile Thr Arg

1 5 10 15

Asp Thr Glu Thr Ala Asn Gln Asp Lys Lys Leu Thr Thr Ser Arg Cys 20 25 30

Arg Gln Leu Phe Pro Arg Cys Gln Asn Lys Thr Ser Tyr His Asp Glu 35 40 45

Ala Pro Thr Pro Leu Asn Leu Pro Ser Ser Cys Leu Pro Leu Ser Leu 50 60

Ala Gly 65

<210> 5495

<211> 117

<212> PRT

<213> Homo sapiens

<400> 5495

Leu Asp Arg Ile Phe Ser Gly Gly Ser Leu Val Asp Phe Glu Gly Lys
1 5 10 15

Thr Phe Trp Val Tyr His Val Leu Ile Leu Glu Thr Gly Ser Asp Glu 20 25 30

Ser Ser Pro Val Val Pro Leu Ser Asn Ser Ile Lys Val Gly Ile Ser 35 40 45

4863

Lys Glu His Leu Ile Gln Gly Ala Gly Ala Asp Phe Ile Asp Ser Arg
50 55 60

Glu Thr Cys Phe Ser Ala Tyr Ser Ser Leu Pro Ser Gly Ala Ser Leu 65 70 75 80

Leu Thr Ile Thr Ala Ser Leu Arg Cys Arg Trp Val Phe Leu Lys Gln
85 90 95

Glu Thr Val Ser Pro Leu Leu Pro Gln Leu Leu Gly Val Gly Ile Ser 100 105 110

Asp Thr Gly Asp Gly 115

<210> 5496

<211> 171

<212> PRT

<213> Homo sapiens

<400> 5496

Ile Thr Met Asp Trp Gln Ser Ile Lys Ile Gln Glu Leu Met Ser Asp
1 5 10 15

Asp Gln Arg Glu Ala Gly Arg Ile Pro Arg Thr Ile Glu Cys Glu Leu 20 25 30

Val His Asp Leu Val Asp Ser Cys Val Pro Gly Asp Thr Val Thr Ile 35 40 45

Thr Gly Ile Val Lys Val Ser Asn Ala Glu Glu Gly Ser Arg Asn Lys 50 55 60

Asn Asp Lys Cys Met Phe Leu Leu Tyr Ile Glu Ala Asn Ser Ile Ser 65 70 75 80

Asn Ser Lys Gly Gln Lys Thr Lys Ser Ser Glu Asp Gly Cys Lys His
85 90 95

Gly Met Leu Met Glu Phe Ser Leu Lys Asp Leu Tyr Ala Ile Gln Glu 100 105 110

Ile Gln Ala Glu Glu Asn Leu Phe Lys Leu Ile Val Asn Ser Leu Cys 115 120 125

Pro Val Ile Phe Gly His Glu Leu Val Lys Ala Gly Leu Ala Leu Ala 130 135 140

4864

Leu Phe Gly Gly Ser Gln Lys Tyr Ala Asp Asp Lys Asn Arg Ile Pro 145 150 155 160

Ile Arg Gly Asp Pro His Ile Leu Val Gly Phe 165 170

<210> 5497

<211> 24

<212> PRT

<213> Homo sapiens

<400> 5497

Ser Val Lys Cys Arg Leu Ser Ser Phe Ile Met Asn Val Ile Val Arg 1 5 10 15

Asn Thr Leu Thr Phe Ser Asn Phe 20

<210> 5498

<211> 74

<212> PRT

<213> Homo sapiens

<400> 5498

Gly Phe Ser Gln Arg Arg Val Cys Ser Gly Arg Cys Cys Gly Gln Gly
1 5 10 15

Ser Arg Gln Arg Pro Leu Ser Ser Arg Leu Ala Pro Ala Leu Arg Gly
20 25 30

His Gly Gly Ala Glu Ala Thr Arg Ala Gly Pro Glu Pro Gly Gly Pro
35 40 45

Trp Leu Arg Phe Ser Cys Thr Glu Lys Leu Asn Pro Ala Arg Ser Asp 50 55 60

Val His Phe Met Val Pro Thr Pro Leu Gly
65 70

<210> 5499

<211> 153

<212> PRT

<213> Homo sapiens

<220>

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<223> Xaa equals any of the naturally occurring L-amino acids
<220>
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Thr Cys Tyr Ala Thr Pro Cys Leu Val Trp Met Gly Arg Trp Pro Pro
                                     10
Ala Val Thr Leu Thr Cys Arg Pro Thr Ala Thr Val Pro Trp Ser Pro
                                 25
Gly Thr Thr Ser Ala Glu Thr Thr Ala Leu Ala Arg Ser Leu Cys Ser
                             40
Ala Gly Thr Gln Pro Ala Pro Ser Thr Thr Ser Leu Pro Ser Trp Arg
     50
                         55
Ser Ala Ala Pro Leu Ala Trp Pro Leu Gln Leu Ser Gly Gln Trp Trp
 65
                     70
Ser Ala Gly Ala Cys Phe Leu Asp Leu Pro Ser Leu Ala Leu Cys Trp
                                      90
Pro Gly Asp Ser Gly Asp Ala Ser Gly Gln Lys Pro Gly Ala Glu Gln
            100
                                 105
                                                     110
Thr Leu Gly Cys Ser Gly Trp Ala Gln Ala Xaa Phe Arg Leu Ala Ala
        115
                                                 125
                             120
Thr Val Arg Xaa Pro Xaa Arg Pro Gln Ala Pro Ser Xaa Arg Ala Phe
                        135
                                             140
Leu Pro Leu His Phe Pro Thr Ile Glu
145
                    150
```

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<210> 5500
 <211> 142
 <212> PRT
<213> Homo sapiens
<400> 5500
Trp Thr Trp Ser Thr Pro Ala Ser Ala Arg Ser Ser Gly Thr Thr
  1
                  5
Trp Pro Pro Ala Pro Ala Ala Ala Leu His Leu Arg Leu Arg Gly Val
             20
                                  25
Gln Arg Arg Ile Leu Thr Met Glu Pro Val Leu Gly Gly Thr Pro
Tyr Leu Asp Lys Phe Val Val Ser Ser Ser Arg Gln Gly Gln Gly Ser
                         55
Gly Gln Met Leu Trp Glu Cys Leu Arg Arg Asp Leu Gln Thr Leu Phe
 65
                     70
                                          75
Trp Arg Ser Arg Val Thr Asn Pro Ile Asn Pro Trp Tyr Phe Lys His
                                      90
Ser Asp Gly Ser Phe Ser Asn Lys Gln Trp Ile Phe Phe Trp Phe Gly
            100
                                105
Leu Ala Asp Ile Arg Asp Ser Tyr Glu Leu Val Asn His Ala Lys Gly
        115
                            120
Leu Pro Asp Ser Phe His Lys Pro Ala Ser Asp Pro Gly Ser
    130
                        135
                                            140
<210> 5501
<211> 100
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (23)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
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<222> (29)
<223> Xaa equals any of the naturally occurring L-amino acids
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4867

Ser Ala Pro Ala Ala Lys Leu Ala Cys Phe Thr Gly Lys Leu Leu Glu 35 40 45

Glu Trp Leu Leu Met Arg Phe Gln Asn Glu Val Leu Ala Asn Thr Ala 50 55 60

His Gly His Pro Gly Phe Ser Gln Trp Leu Pro Phe Leu Leu Ala Ser 65 70 75 80

Leu Asn Arg Gly Glu Ser Leu Thr Ser Leu Leu Leu Ser Lys Pro Phe 85 90 95

Thr Leu Asn Gly 100

<210> 5502 <211> 165 <212> PRT <213> Homo sapiens

<400> 5502

Lys Trp Asp Glu Pro Trp Tyr Asn Gln Lys Thr Glu His Gln Arg Asn 1 5 10 15

Ser Ser Lys Ile Leu Arg Phe Ile Ser Asp Phe Leu Ala Phe Leu Val 20 25 30

Leu Tyr Asn Phe Ile Ile Pro Ile Ser Leu Tyr Val Thr Val Glu Met
35 40 45

Gln Lys Phe Leu Gly Ser Phe Phe Ile Gly Trp Asp Leu Asp Leu Tyr 50 55 60

His Glu Glu Ser Asp Gln Lys Ala Gln Val Asn Thr Ser Asp Leu Asn 65 70 75 80

Glu Glu Leu Gly Gln Val Glu Tyr Val Phe Thr Asp Lys Thr Gly Thr 85 90 95

Leu Thr Glu Asn Glu Met Gln Phe Arg Glu Cys Ser Ile Asn Gly Met 100 105 110

```
Lys Tyr Gln Glu Ile Asn Gly Arg Leu Val Pro Glu Asp Gln His Gln
                             120
Thr Leu Gln Lys Glu Thr Tyr Leu Ile Leu Val Val Tyr Pro Ile Leu
    130
                135
                                            140
Thr Thr Tyr Pro Ile Leu Gln Pro Val Pro Leu Ser Glu Pro Val Leu
145
                    150
                                         155
                                                             160
Lys Met Lys Leu Asn
                165
<210> 5503
<211> 54
<212> PRT
<213> Homo sapiens
<400> 5503
Arg Leu Pro Ser Glu Val Ser Asp His Ser Leu Leu Leu Lys Gln Leu
                  5
                                     10
Leu Leu Phe Leu Tyr Ser Ile Glu His Pro Gly Ile Asp Ile Ile Leu
                                 25
Ser Ile Ser Ile Ser Pro Leu Leu Val Tyr Leu Ile Ile Asn Pro Val
         35
                             40
Ser Arg Ala Val Phe Ile
     50
<210> 5504
<211> 220
<212> PRT
<213> Homo sapiens
<220>
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<222> (57)
<223> Xaa equals any of the naturally occurring L-amino acids
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<222> (175)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
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<222> (178) <223> Xaa equals any of the naturally occurring L-amino acids															
<400> 5504 His Glu Gly Lys Cys Phe Cys Arg Lys Ser Thr Leu Thr His Leu															
His 1	Glu	Gly	Lys	Cys 5	Phe	Сув	Arg	Lys	Ser 10	Thr	Leu	Thr	Thr	His 15	Leu
Arg	Thr	His	Thr 20	Gly	Glu	Lys	Pro	Tyr 25	Glu	Cys	Asn	Glu	Cys 30	Gly	Lys
Phe	Phe	Ser 35	Arg	Leu	Ser	Tyr	Leu 40	Thr	Val	His	Tyr	Arg 45	Thr	His	Ser
Gly	Glu 50	Lys	Pro	Tyr	Glu	Cys 55	Asn	Xaa	Cys	Gly	Lys 60	Thr	Phe	Tyr	Leu
Asn 65	Ser	Ala	Leu	Met	Arg 70	His	Gln	Arg	Val	His 75	Thr	Gly	Glu	Lys	Pro 80
Tyr	Glu	Cys	Asn	Glu 85	Cys	Gly	Lys	Leu	Phe 90	Ser	Gln	Leu	Ser	Туr 95	Leu
Thr	Ile	His	His 100	Arg	Thr	His	Ser	Gly 105	Val	Lys	Pro	Tyr	Glu 110	Cys	Ser
Glu	Cys	Gly 115	Lys	Thr	Phe	Tyr	Gln 120	Asn	Ser	Ala	Leu	Cys 125	Arg	His	Arg
Arg	Ile 130	His	Lys	Gly	Glu	Lys 135	Pro	Tyr	Glu	Cys	Туг 140	Ile	Cys	Gly	Lys
Phe 145	Phe	Ser	Gln	Met	Ser 150	Tyr	Leu	Thr	Ile	His 155	His	Arg	Ile	His	Ser 160
Gly	Glu	Lys	Pro	Туг 165	Glu	Cys	Ser	Glu	Cys 170	Gly	Lys	Thr	Phe	Xaa 175	Gln
Asn	Xaa	Ala	Leu 180	Asn	Arg	His	Gln	Arg 185	Thr	His	Thr	Gly	Glu 190		Ala
Tyr	Glu	Cys 195	Tyr	Glu	Cys	Gly	Lys 200	Cys	Phe	Ser	Gln	Met 205		Tyr	Leu
Thr	Ile 210		His	Arg	Ile	His 215	Ser	Gly	Glu	Asn	Leu 220				

<210> 5505 <211> 111 <212> PRT

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<213> Homo sapiens
 <400> 5505
 Lys Arg Glu Phe Ala Gly Glu Lys Arg Leu Asp Leu Val Glu Asp Cys
                   5
Leu Gly Trp Gly Ser Thr Thr Trp Arg Phe Gln Ile His Leu Ala Cys
              20
                                  25
Lys Gln Gln Ser Tyr Pro Tyr Leu Pro His Val Asn Val Ile Ala Arg
Val Thr Leu Asp Lys Leu Gln Thr Asp Gly Pro Ser Ser Pro Gly
Ala Pro Trp Met Ala Ala Leu Leu Gln Ser Val Ser Cys Phe Trp Asn
 65
                     70
Ser Leu Leu Gly Asn Phe Lys Glu Glu Lys Lys Asn Leu Asn Cys Val
                                      90
Glu Leu Leu Tyr Leu Leu Leu Phe Phe Glu Lys Ile Asn Leu
            100
                               105
<210> 5506
<211> 157
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (55)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (132)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5506
Thr Lys Ser Ser Ala Leu Gly Pro Arg Ala Pro Ser Leu Arg Arg His
                  5
                                     10
Val Leu Ile His Asn Thr Leu Gln Gln Leu Gln Ala Ala Leu Arg Leu
             20
```

Ala Pro Ala Pro Ala Leu Pro Pro Glu Pro Leu Phe Leu Gly Glu Glu 35 40 45

4871

Asp Phe Ser Leu Ser Ala Xaa Ile Gly Ser Ile Leu Arg Glu Leu Asp Thr Ser Met Asp Gly Thr Glu Pro Pro Gln Asn Pro Val Thr Pro Leu 70 75 Gly Leu Gln Asn Glu Val Pro Pro Gln Pro Asp Pro Val Phe Leu Glu 90 85 Ala Leu Ser Ser Arg Tyr Leu Gly Asp Ser Gly Leu Asp Asp Phe Phe 105 100 Leu Asp Ile Asp Thr Ser Ala Val Glu Lys Glu Pro Ala Arg Ala Pro 120 Pro Glu Pro Xaa His Asn Leu Phe Cys Ala Pro Gly Ser Trp Glu Trp 140 130 135 Asn Glu Leu Asp His Ile Met Glu Ile Ile Leu Gly Ser 150 155 · 145 <210> 5507 <211> 45 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (11) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (20) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (29) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (36) <223> Xaa equals any of the naturally occurring L-amino acids <400> 5507 Lys Met Met Arg Val His Gln Asp Ser Thr Xaa Glu Lys Leu Pro Phe

Phe Pro Leu Xaa Ala Asp Trp Lys Ala Ser Arg Ala Xaa Leu Cys Ala 20 25 30

Leu Phe Arg Xaa Thr His Lys Asp Leu Gly Lys Cys Lys 35 40 45

<210> 5508

<211> 158

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (152)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5508

Asn Phe Ile Phe Ile Leu Lys Leu His Leu Leu Lys Ser Leu Lys Ile
1 5 10 15

Ile Ser Val His Val Leu Asn Thr Ser Leu Tyr Ser Val Ile Asn Thr 20 25 30

Pro Asp Phe Phe Pro Leu Thr Leu Cys His Pro Ser Val Cys Leu Val
35 40 45

Ser Ser Met Pro Cys Gly Arg Gly Val Ser Leu Ser Ser Ala Gln Glu 50 55 60

Gly Asn Phe Lys His Ile Cys Thr Ile Lys Phe Gln Ile Lys His Phe
65 70 75 80

Lys Lys Gly Ala Gln Thr Arg Asn Thr Cys Ser Ser Glu Ile Pro Cys 85 90 95

Cys Asn Cys Asn Ser Cys His Ile Tyr Pro Val Tyr Glu Glu Lys Phe
100 105 110

Leu Gln Phe Ser His Cys Pro Ser Val Leu Leu Pro Gly Cys Ala Leu 115 120 125

Leu Leu Glu Leu Lys Tyr Glu Ile Phe Thr Leu Lys Tyr Val Asn Val 130 135 140

Lys Val Asp Arg Ile Lys Phe Xaa Asn Pro Leu Arg Phe Ile 145 150 155

```
<210> 5509
<211> 54
<212> PRT
<213> Homo sapiens
<400> 5509
Ile Thr Gly Met Ser His Cys Ala Arg Pro Ser Phe Leu Phe Asn Lys
                                     10
Cys Met Tyr Leu Lys Ala Ile Ala Phe Ser Arg Asn Leu Phe Leu Cys
                                 25
Ser Gly Arg Ala Tyr Lys Leu Cys Leu Gln Leu Phe Phe Ser Lys
                                                 45
         35
                             40
Gly Asn Thr Ser Gly Arg
     50
<210> 5510
<211> 51
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (44)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5510
Ser Thr Arg Gln Pro Asn Pro Phe Gly Ala Thr Ile Asp Cys Tyr Lys
                                      10
Ala His Pro Trp Val Lys Ile Tyr Tyr Leu Gln Leu Tyr Leu Met Thr
                                 25
Leu Ile Leu Pro Ser Ser Tyr Ile Lys Phe Gly Xaa Val Phe Tyr Xaa
                                                  45
                             40
Ile Ile Phe
     50
```

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<210> 5511
 <211> 120
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> SITE
 <222> (111)
 <223> Xaa equals any of the naturally occurring L-amino acids
<220>
 <221> SITE
<222> (113)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5511
Gln Pro Arg Arg Pro Pro Arg Cys Pro Leu Pro Arg Gly Pro Trp Gly
                 5
Arg Pro Arg Ala Thr Gly Pro Gln Leu Gly Cys Ile Ser Ser Thr Ser
      . 20
Cys Pro Ala Pro Thr Ser Ser Ser Ala Arg Cys Pro Ala Phe Ser Arg
<del>---- 3:5 ---</del>
                            40 - - -
Pro Arg Ala Gly Ile Pro Ala Gly Leu Val Ala Gly Gly Leu Gly
Gly Pro Gly Leu Gly Pro Glu Pro His Phe His Arg Cys Leu Pro His
 65
                     70
                                         75
Pro Leu Leu Leu Pro Ala Pro Arg Ala Pro Arg Val Gln Asp Pro
                 85
Leu Ala Arg Gly Arg Leu Arg His Leu Glu Leu Ile Val Pro Xaa Ser
                                105
Xaa Ala Ala Leu Ala Leu Ala Ser
        115
                            120
<210> 5512
<211> 67
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (67)
<223> Xaa equals any of the naturally occurring L-amino acids
```

4875

Ile Asp Phe Phe Ile Ser Phe Glu Leu Pro Pro Phe Tyr Tyr Val Met 20 25 30

Asn Met Cys Cys Phe Cys Asn Arg Lys Ile Ile Lys Leu Lys Phe Gln 35 40 45

Lys Lys Xaa 65

<210> 5513

<211> 98

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (93)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5513

Asn Ala Thr Ile Ile Val Asn Lys Ile Pro Val Asn Thr Cys Cys Leu 1 5 10 15

Cys Cys Leu Ser Pro Asp Ser Arg Ala Glu Phe Ser Phe Cys Thr Val 20 25 30

Ala Leu Ala Leu Thr Val Thr Ala Leu Gln Gln Ala Pro Ser Pro Arg 35 40 45

Pro Phe Arg Ser Ile Pro Gln Arg Val Leu His Val Ser Ser Pro Met 50 55 60

Ser Ser Leu Gly Ser Ser Val Lys Thr His Ser Ser Pro Ala Gly Val 65 70 75 80

Leu Arg Asp Ala Arg Ser Leu Trp Gly Gln Phe Gly Xaa Ile Asp Ile 85 90 95

His Val

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<210> 5514
<211> 61
<212> PRT
<213> Homo sapiens
<400> 5514
Gly Lys Lys Arg Lys Lys Leu Tyr Phe Phe Ser Ile Tyr Leu Leu Gln
                                     10
Arg Thr Leu Cys Phe Leu Ser Cys Lys Thr Ser Tyr Phe Ser Tyr Tyr
                                 25
Cys Thr Leu Glu Lys Ser Cys Arg Phe Met Leu Asn Ser Tyr Leu Arg
                             40
Thr Ile Val Ile Ser Ser Lys Arg His Glu Leu Ser Ser
                         55
<210> 5515
<211> 53
<212> PRT
<213> Homo sapiens
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<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (53)
<223> Xaa equals any of the naturally occurring L-amino acids
Phe Lys Ala Leu Asn Ser Lys Ser Ile Lys Thr Tyr Leu Gly Glu Thr
                                     10
Gly Ile Met Gln Phe Ile Thr Cys Ile His Ser Ser Ile Gln Lys Tyr
                                 25
Gly Xaa Ile Trp Tyr Leu Lys Leu Lys Cys Gly Ser Lys Ala Thr Lys
         35
                             40
Ser Glu Thr Trp Xaa
     50
```

```
<210> 5516
<211> 33
<212> PRT
<213> Homo sapiens
<400> 5516
Phe Ala Asn Leu Lys Ile Gly Thr Pro Leu Gly Met Pro Asp Arg Arg
Val Leu His Ile Cys Arg Gly Arg Gln Glu Leu Asn Ile Thr Thr Ser
                                 25
Phe
<210> 5517
<211> 68
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
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<222> (11)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
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<222> (35)
<223> Xaa equals any of the naturally occurring L-amino acids
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<222> (56)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (68)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5517
Ala Thr Glu Pro Ser Leu Leu Xaa Ser Phe Xaa His Asn Phe Cys Phe
                                                          15
                  5
                                      10
```

Ile His Asn Phe Ser Ser Ile Glu Ser Arg Ile Lys Thr Trp Val Leu 20 25 30

Ser Leu Xaa Leu Ser Val Glu Ala Tyr Glu Cys Leu Leu Lys Ile Met 35 40 45

Phe Leu Asn Ala Leu Asn Ile Xaa Asp Tyr Lys Gly Ile Leu Leu Phe 50 55 60

Glu Ile Arg Xaa 65

<210> 5518

<211> 95

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5518

Thr Asn Arg Pro Leu Ser Phe Pro Gln Phe Ile Thr Phe Ser Leu Phe 1 5 10 15

Thr Leu Cys Pro Met Thr Phe Leu His His Trp Leu Leu Phe Ile Lys
20 25 30

Pro Thr Ile Lys Asn Ile Gln Val Gln Leu Phe Leu Trp Ala Phe Ile 35 40 45

Ser Leu Trp Xaa Pro Ser Cys Arg Val Lys Leu Ile Leu Asn Lys Cys 50 55 60

Ala Cys Phe Ser Leu Ala Asn Leu Ser Phe Val Ile Glu Ile Ser Ala 65 70 75 80

Leu Asn Leu Gly Trp Ile Glu Gly Asn Ile Cys Ser Pro Leu His 85 90 95

<210> 5519

<211> 41

<212> PRT

<213> Homo sapiens

Phe Ser Pro Ser Pro Arg Thr Leu Thr Leu Tyr Arg Met Gly Pro Ser 35 40 45

Ser Cys Leu Leu Ile Leu Ile Pro Leu Leu Gln Leu Ile Asn Xaa 50 55 60

Gly Ser Thr Gln Cys Ser Leu Asp Ser Val Met Asp Lys Lys Ile Lys
65 70 75 80

Asp Val Leu Asn Ser Leu Glu Tyr Ser Pro Ser Pro Ile Ser Lys Lys 85 90 95

Leu Ser Cys Ala Ser Val Lys Ser Gln Gly Arg Pro Ser Ser Cys Pro 100 105 110

Ala Gly Met Ala Val Thr Gly Cys Ala Cys Gly Tyr Gly Cys Gly Ser 115 120 125

Trp Asp Val Gln Leu Glu Thr Thr Cys His Cys Gln Cys Ser Val Val 130 135 140

Asp Trp Thr Thr Ala Arg Cys Cys His Leu Thr

4880

145 150 155

<210> 5521

<211> 93

<212> PRT

<213> Homo sapiens

<400> 5521

Ile Lys Val Asp Gly Lys Ala Ile Ser Ile Arg Ile Glu Thr Glu Ser 1 5 10 15

Tyr Asn Thr Val Cys Thr Thr Leu Arg Trp Ile His Ser Ala His Ala 20 25 30

Leu Asn Val Tyr Ile Val Leu Ser Val Gly Ser Gly Thr Phe Ser Leu $35 \hspace{1cm} 40 \hspace{1cm} 45$

Val Phe Leu Lys Asn Tyr Lys Ser Glu Glu Lys Ala Ser Ile Ile Asn 50 55 60

Lys Thr Asn Asn Cys Phe Thr Ala Leu Arg Asn Asn Asn Tyr Asn Val 65 70 75 80

Tyr Tyr Leu Lys Met Gly Glu Ile Val Cys Ser Met Lys 85 90

<210> 5522

<211> 48

<212> PRT

<213> Homo sapiens

<400> 5522

Ile Ser His Ala Ile Ile Trp Val Cys Cys Ile Lys Ser Ser Thr Thr 1 5 10 15

Leu Trp Phe Ser His Cys Ile Ile Lys His Glu Ala Ser Arg Ile Lys
20 25 30

Ser Tyr Cys Phe Thr Cys Leu Leu Ser Pro Leu Cys His Phe Thr Phe 35 40 45

<210> 5523

4881

<211> 169

<212> PRT

<213> Homo sapiens

<400> 5523

His Glu Glu Lys Thr Thr Tyr Asp Ser Ala Glu Glu Glu Asn Lys Glu
1 5 10 15

Asn Leu Tyr Ala Gly Lys Asn Thr Lys Ile Lys Arg Ile Tyr Lys Thr 20 25 30

Val Ala Asp Ser Asp Glu Ser Tyr Met Glu Lys Ser Leu Tyr Gln Glu
35 40 45

Asn Leu Glu Ala Gln Val Lys Pro Cys Leu Glu Leu Ser Leu Gln Ser 50 55 60

Gly Asn Ser Thr Asp Phe Thr Thr Asp Arg Lys Ser Ser Lys Lys His
65 70 75 80

Ile His Asp Lys Glu Gly Thr Ala Gly Lys Ala Lys Val Lys Ser Lys
85 90 95

Arg Arg Leu Glu Lys Glu Glu Arg Lys Met Glu Lys Ile Arg Gln Leu 100 105 110

Lys Lys Glu Thr Lys Asn Gln Glu Asp Asp Val Glu Gln Pro Phe 115 120 125

Asn Asp Ser Gly Cys Leu Leu Val Asp Lys Asp Leu Phe Glu Thr Gly 130 135 140

Ser Ile Arg Ala Ala Val Lys Asn Lys 165

<210> 5524

<211> 67

<212> PRT

<213> Homo sapiens

<400> 5524

Gly Gly Thr Gly Ser Glu Cys Arg Ala Gln Gly Glu Ile Gly Ser Pro 1 5 10 15

Cys Arg Thr Cys Ser Ser Pro Ala Pro Lys Gly Asp Gly Val Trp Ala
20 25 30

4882

Trp Gly Phe Leu His Val Pro Pro Tyr Pro Asp Pro Ser Ser Gln Ser 35 40 45

Val Thr Leu Leu Trp Ala Gln Pro Pro Asn Arg Ser His Leu Gly Leu 50 55 60

Gly Gln Thr 65

<210> 5525

<211> 172

<212> PRT

<213> Homo sapiens

<400> 5525

Pro Thr Arg Pro Pro Thr Arg Pro Pro Thr Arg Pro Asp Ser Ser Lys

1 5 10 15

Pro Ile Val Arg Glu Ser Trp Met Thr Glu Leu Pro Pro Glu Met Lys
20 25 30

Asp Phe Gly Leu Gly Pro Arg Thr Phe Lys Arg Arg Ala Asp Asp Thr 35 40 45

Ser Gly Asp Arg Ser Ile Trp Thr Asp Thr Pro Ala Asp Arg Glu Arg 50 55 60

Lys Ala Lys Glu Thr Gln Glu Ala Arg Lys Ser Ser Ser Lys Lys Asp 65 70 75 80

Glu Glu His Ile Leu Ser Gly Arg Asp Lys Arg Leu Ala Glu Gln Val 85 90 95

Ser Ser Tyr Asn Glu Ser Lys Arg Ser Glu Ser Leu Met Asp Ile His
100 105 110

His Lys Lys Leu Lys Ser Lys Ala Ala Glu Asp Lys Asn Lys Pro Gln 115 120 125

Glu Arg Ile Pro Phe Asp Arg Asp Lys Asp Leu Lys Val Asn Arg Phe 130 135 140

Asp Glu Ala Gln Lys Lys Ala Leu Ile Lys Lys Ser Arg Glu Leu Asn 145 150 155 160

Thr Arg Phe Ser His Gly Lys Gly Asn Met Phe Leu 165 170

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<210> 5526
<211> 76
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (53)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5526
Ala Phe Ser Arg Lys Ser His Leu Ile Pro His Gln Arg Thr His Thr
                  5
                                     10
Gly Glu Lys Pro Tyr Gly Cys Ser Glu Cys Arg Lys Ala Phe Ser Gln
                                 25
             20
Lys Ser Gln Leu Val Asn His Gln Arg Ile His Thr Gly Glu Lys Pro
                             40
Tyr Arg Cys Ile Xaa Cys Gly Lys Ala Phe Ser Gln Lys Ser Gln Leu
     50
                         55
Ile Asn His Gln Arg Thr His Thr Val Lys Lys Ser
                     70
 65
<210> 5527
<211> 398
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (382)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (395)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5527
Cys Val Asn Pro Glu Leu Ile Ile Trp Val Asn Arg Phe Val Met Cys
                                      10
Phe Phe Val Glu Leu Lys Lys Ala Ser Lys Arg Met Thr Cys His Lys
                                  25
```

Arg	Tyr	Lys 35	Ile	Gln	Lys	Lys	Val 40	Arg	Glu	His	His	Arg 45	Lys	Leu	Arg
Lys	Glu 50	Ala	Lys	Lys	Arg	Gly 55	His	Lys	Lys	Pro	Arg 60	Lys	Asp	Pro	Gly
Val 65	Pro	Asn	Ser	Ala	Pro 70	Phe	Lys	Glu	Ala	Leu 75	Leu	Arg	Glu	Ala	Glu 80
Leu	Arg	Lys	Gln	Arg 85	Leu	Glu	Glu	Leu	Lys 90	Gln	Gln	Gln	Lys	Leu 95	Asp
Arg	Gln	Lys	Glu 100	Leu	Glu	Lys	Lys	Arg 105	Lys	Leu	Glu	Thr	Asn 110	Pro	Asp
Ile	Lys	Pro 115	Ser	Asn	Val	Glu	Pro 120	Met	Glu	Lys	Glu	Phe 125	Gly	Leu	Cys
Lys	Thr 130	Glu	Asn	Lys	Ala	Lys 135	Ser	Gly	Lys	Gln	Asn 140	Ser	Lys	Lys	Leu
Туг 145	Cys	Gln	Glu	Leu	Lys 150	Lys	Val	Ile	Glu	Ala 155	Ser	Asp	Val	Val	Leu 160
Glu	Val	Leu	Asp	Ala 165	Arg	Asp	Pro	Leu	Gly 170	Cys	Arg	Cys	Pro	Gln 175	Val
Glu	Glu	Ala	Ile 180	Val	Gln	Ser	Gly	Gln 185	Lys	Lys	Leu	Val	Leu 190	Ile	Leu
Asn	Lys	Ser 195	Asp	Leu	Val	Pro	Lys 200	Glu	Asn	Leu	Glu	Ser 205	Trp	Leu	Asn
Туr	Leu 210	Lys	Lys	Glu	Leu	Pro 215	Thr	Val	Val	Phe	Arg 220	Ala	Ser	Thr	Lys
Pro 225	Lys	Asp	Lys	Gly	Lys 230	Ile	Thr	Lys	Arg	Val 235	Lys	Ala	Lys	Lys	Asn 240
Ala	Ala	Pro	Phe	Arg 245	Ser	Glu	Val	Cys	Phe 250	Gly	Lys	Glu	Gly	Leu 255	Trp
Lys	Leu	Leu	Gly 260	Gly	Phe	Gln	Glu	Thr 265	Cys	Ser	Lys	Ala	Ile 270	Arg	Val
Gly	Val	Ile 275	Gly	Phe	Pro	Asn	Val 280	Gly	Lys	Ser	Ser	Ile 285	Ile	Asn	Ser
Leu	Lys 290	Gln	Glu	Gln	Met	Cys 295	Asn	Val	Gly	Val	Ser 300	Met	Gly	Leu	Thr

4885

Arg Ser Met Gln Val Val Pro Leu Asp Lys Gln Ile Thr Ile Ile Asp 305 315 320 310 Ser Pro Ser Phe Ile Val Ser Pro Leu Asn Ser Ser Ser Ala Leu Ala 330 325 Leu Arg Ser Pro Ala Ser Ile Glu Val Val Lys Pro Met Glu Ala Ala 345 Ser Ala Ile Leu Ser Gln Ala Asp Ala Arg Gln Val Val Leu Lys Tyr 360 Thr Val Pro Gly Tyr Arg Asn Ser Leu Gly Ile Phe Tyr Xaa Ala Cys 380 370 375 Ser Glu Lys Arg Tyr Ala Pro Lys Arg Trp Xaa Pro Lys Cys 390 <210> 5528 <211> 78 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (53) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (59) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (68) <223> Xaa equals any of the naturally occurring L-amino acids <400> 5528 Gln Ser Gly Arg Gly Gly Asp Arg Gly Arg Ser Lys Val Asp Thr Ser Ala Lys Pro Phe Ala Val Ile Ser Asp Cys Ala Val Ser Cys Pro Val 30 20 25 His Gln Ser Pro Leu Val Phe Asp Val Gly Gln Cys Arg Gln His Asp

40

Leu Ala Gly Gln Xaa Leu Ile Tyr His Ser Xaa Asp Thr Ser Trp Ser 50 55 60

Leu Gly Ser Xaa His Pro Met Phe Pro Leu Phe Pro His Leu 65 70 75

<210> 5529

<211> 80

<212> PRT

<213> Homo sapiens

<400> 5529

Glu Pro Ala Trp Gly Asp Cys Gln Val Ala Lys Gly Lys Glu Arg Val 1 5 10 15

Ala Asn Cys Leu Leu His Leu Ala Ala Gln Pro Gly Leu Pro Ala Phe 20 25 30

Lys Gly His Phe Phe Gly Gln Glu Leu Thr Arg Met Ser Pro Glu Ser 35 40 45

Ser Thr Pro Arg Val Cys Gly Asn His Pro Leu Leu Asn Thr Glu Ser 50 55 60

Cys Arg Ile Ile Val Gly Lys Glu Ala Thr Ser Ser Glu Ala Val Val 65 70 75 80

<210> 5530

<211> 155

<212> PRT

<213> Homo sapiens

<400> 5530

Ala Val Thr Ser Leu Lys Ala Pro Val Ile Thr Leu Arg Ser Ser Ser 1 5 10 15

Ser Asn Cys His Pro Thr Ser Leu Ala Ser Cys Arg Lys Val Asn Leu 20 25 30

Asp Asn Thr Trp Leu Ser Phe Leu Thr Asn Ala Gly Ser Gly Arg Asn 35 40 45

Ser Leu Val Leu Lys Ser Lys Asn Thr Asn Cys Leu Arg Phe Ser Asn 50 55 60

4887

Thr Pro Met Lys Ala Ser His Pro Ser Leu Leu Thr Arg Phe Pro Ala 65 70 75 80

Lys Phe Asn Cys Trp Lys Phe Phe Arg Gly Phe Phe Pro Lys Asn Ala 85 90 95

Pro Lys Ile Leu Ile Ser Val Ser Val Ser Leu Gln Phe Phe Asn Pro 100 105 110

Ser Leu Thr Ser Cys Gly Thr Ser Ser Lys Cys Phe Asn Lys Leu Leu 115 120 125

Arg Leu Pro Cys Thr Ser Gln Pro Gln Gly Ser Ile Ser Ala Val Ser 130 135 140

Cys Ser Ser Thr Phe Ile Leu Ser Ile Ser Ser 145 150 155

<210> 5531

<211> 63

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5531

Phe Ile Lys Ile Val His Ser Phe Ile His Ser Cys Ser Leu Lys Met 20 25 30

Leu Phe Arg Lys Glu Phe Asp Lys Ile Asn Ile Ile Gln Asn Ser Lys
35 40 45

Lys Lys Glu Xaa Ser Phe Cys Phe Ser His Lys Leu Gly Leu Leu 50 55 60

<210> 5532

<211> 145

<212> PRT

<213> Homo sapiens

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<221> SITE
<222> (95)
<223> Xaa equals any of the naturally occurring L-amino acids
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<221> SITE
<222> (100)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5532
Lys Gln Pro Pro Leu Gln Ser His Pro Pro Ser Gly Cys Gly Arg Pro
Gly Trp Pro Ala Glu Ala Pro Arg Pro Gly Leu His Pro Ser Ala Gln
                                 25
Thr Thr Ala Gly Arg Ala Gly Val Gln Val Gly Gln Leu Pro Pro Phe
         35
                             40
His Pro Ser Pro Pro Leu Leu Arg Pro His Gln Glu Gln Asp Pro Cys
Ala Ser Val Val Leu Pro Cys Leu Gln Ala Ala Cys Gly Pro Ala Val
                     70
                                         75
Thr Gln Pro Gly Asp Thr Thr Ser Pro Gly Gly Leu Cys Ala Xaa Arg
                 85
                                     90
His Leu Arg Xaa Trp Lys Pro Ser Cys Gly Arg Arg Leu Gly Glu Gly
            100
                                105
Arg Arg Glu Gly Gly His Ala Ala Ser Val Ala Ser Thr Thr Leu Thr
                            120
Val Pro Trp Arg Trp Leu Ser Pro Asp Arg Gly Gln Thr His Arg Ala
    130
                        135
Arg
145
<210> 5533
<211> 113
<212> PRT
<213> Homo sapiens
<400> 5533
Glu Ser Trp Tyr Ala Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr
                  5
                                                          15
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<220>

4889

His Ala Ser Ala Asp Ala Trp Gly Lys Thr Phe Ala Arg Tyr Leu Ser 20 25 30

Phe Arg Arg Asp Asn Asn Glu Leu Leu Leu Phe Ile Leu Lys Gln Leu
35 40 45

Val Ala Glu Gln Val Thr Tyr Gln Arg Asn Arg Phe Gly Ala Gln Gln 50 55 60

Asp Thr Ile Glu Val Pro Glu Lys Asp Leu Val Asp Lys Ala Arg Gln 65 70 75 80

Ile Asn Ile His Asn Leu Ser Ala Phe Tyr Asp Ser Glu Leu Phe Arg 85 90 95

Met Asn Lys Phe Ser His Asp Leu Lys Arg Lys Met Ile Leu Gln Gln 100 105 110

Phe

<210> 5534

<211> 180

<212> PRT

<213> Homo sapiens

<400> 5534

Phe Ser Gln His Ser Arg Leu Ala Val His Arg Arg Ile His Thr Gly
1 5 10 15

Glu Lys Pro Tyr Lys Cys Lys Glu Cys Gly Lys Val Phe Ser Asp Arg

Ser Ala Phe Ala Arg His Arg Arg Ile His Thr Gly Glu Lys Pro Tyr 35 40 45

Lys Cys Lys Glu Cys Gly Lys Val Phe Ser Gln Cys Ser Arg Leu Thr
50 55 60

Val His Leu Arg Ile His Ser Gly Glu Lys Pro Tyr Lys Cys Asn Glu 65 70 75 80

Cys Gly Lys Val Tyr Ser Gln Tyr Ser His Leu Val Gly His Arg Arg 85 90 95

Val His Thr Gly Glu Lys Pro Tyr Lys Cys His Glu Cys Gly Lys Ala 100 105 110

4890

Phe Asn Gln Gly Ser Thr Leu Asn Arg His Gln Arg Ile His Thr Gly 115 120 125

Glu Lys Pro Tyr Lys Cys Asn Gln Cys Gly Asn Ser Phe Ser Gln Arg 130 135 140

Val His Leu Arg Leu His Gln Thr Val His Thr Gly Asp Arg Pro Tyr 145 150 155 160

Lys Cys Asn Glu Cys Gly Gln Asn Leu Leu Asn Gly Ala Gln Thr Ser 165 170 175

Leu His Ile Arg 180

<210> 5535

<211> 164

<212> PRT

<213> Homo sapiens

<220>

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<222> (102)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (107)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (151)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5535

Pro Arg Met Ala Thr Gln Arg Lys His Leu Val Lys Asp Phe Asn Pro 1 5 10 15

Tyr Ile Thr Cys Tyr Ile Cys Lys Gly Tyr Leu Ile Lys Pro Thr Thr 20 25 30.

Val Thr Glu Cys Leu His Thr Phe Cys Lys Thr Cys Ile Val Gln His
35 40 45

Phe Glu Asp Ser Asn Asp Cys Pro Arg Cys Gly Asn Gln Val His Glu
50 55 60

Thr Asn Pro Leu Glu Met Leu Arg Leu Asp Asn Thr Leu Glu Glu Ile

4891

65 70 75 80 Ile Phe Lys Leu Val Pro Gly Leu Arg Glu Glu Leu Glu Arg Glu 85 90 Ser Glu Phe Trp Lys Xaa Asn Lys Pro Gln Xaa Asn Gly Gln Asp Asp 105 Thr Ser Lys Ala Asp Lys Pro Lys Val Asp Glu Glu Gly Asp Glu Asn 120 Glu Asp Asp Lys Asp Tyr Pro Gln Glu Val Thr His Lys Leu Ala Ile 130 135 140 Cys Leu Gly Cys Phe Thr Xaa Leu Met Gly Pro Phe Gly His Val 150 155 160 145 Gly Lys Gly Phe <210> 5536 <211> 55 <212> PRT <213> Homo sapiens <400> 5536 Asn Ser Val Lys Phe Cys Leu Lys Lys Pro Leu Ile Glu Phe Glu Asn His Lys Pro Phe Gln Val Ser Leu Trp Val Cys Phe Gly Phe Phe Phe 25 20 Phe Phe Leu Ser Leu Trp Pro Asn Val Arg Gly Ile Arg Phe Cys Lys 35 Gln Ala Ala Val Ser Ile Ser 50 <210> 5537 <211> 64 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (24) <223> Xaa equals any of the naturally occurring L-amino acids

4892

60

Glu Lys Pro Leu Glu Val Ser Trp Ser Arg Glu Ser Pro Val Ser Cys

55

<210> 5538 <211> 68 <212> PRT <213> Homo sapiens

<400> 5538

50

Ala Phe Asp Gly Leu Ser Thr Ser Ser Ser Gln His Ile Leu Pro Ala 1 5 10 15

Val Ala Ala Trp Leu Gly Leu Phe Phe Ser Tyr Pro Asn Pro Met Met 20 25 30

Pro Gly Thr Leu Ile Thr Val Leu His Gln Leu Leu Tyr Phe Ser Val 35 40 45

Tyr Phe His Asn Glu Leu Tyr Cys His Leu Asp Phe Glu Gln Leu Trp 50 55 60

Glu Ile Glu Asp 65

<210> 5539 <211> 113 <212> PRT <213> Homo s

<213> Homo sapiens

<400> 5539
Gln Glu Pro Pro Ile Met Ala Glu Gly Lys Gly Gly Val Ser Cys Leu
1 5 10 15

4893

Thr Trp Pro Glu Gln Glu Val Glu Arg Gly Arg Cys His Thr Leu Thr 20 25 30

Asn Asn Gln Ile Ser Gly Gln Leu Thr Gln Tyr Gln Glu Asn Ser Thr 35 40 45

Thr Lys Leu Trp Leu Ile Ile His Glu Lys Pro Pro Thr Thr Gln Ser 50 55 60

Pro Pro Thr Arg Pro Tyr Leu Gln His Leu Gly Leu Gln Phe Asn Met 65 70 75 80

Arg Phe Gly Gly Asn Thr Asp Pro Asn His Ile Thr His Lys Leu Gln 85 90 95

Leu Leu His Thr His Asp Asn Pro Leu Ile Cys Glu Gly Leu Ile Cys 100 105 110

Ser

<210> 5540

<211> 33

<212> PRT

<213> Homo sapiens

<400> 5540

Ser Arg Tyr Tyr Ser Glu Ala Cys Ile Leu Tyr Ala Ser Gly His Val 1 5 10 15

Leu Ser Cys Glu Val Arg Cys Ile Ser Tyr Cys Gly Leu Gln Ser Lys 20 25 30

Phe

<210> 5541

<211> 63

<212> PRT

<213> Homo sapiens

<400> 5541

Gly Ala Asp Ser Ala Cys Pro Gly Pro Ala Lys Trp Leu Ser Ser Leu

1 5 10 15

Arg Ala His Val Val Arg Thr Gly Ile Gly Gln Ala Arg Ala Lys Leu
20 25 30

4894

Phe Glu Lys Gln Ile Val Gln His Gly Gly Gln Leu Cys Pro Ala Gln 35 40 45

Gly Pro Gly Val Thr His Ile Val Val Asp Glu Ala Trp Thr Met 50 55 60

<210> 5542

<211> 62

<212> PRT

<213> Homo sapiens

<400> 5542

Met Ser Gln Ala Gly Asn Ser Glu Val Tyr Leu Ala Ile His Val Phe 1 5 10 15

Lys Met Ala Ala Ser Arg Arg Phe Thr Gly Val Pro Asp Arg Arg Gly
20 25 30

Gly Gly Ala Gln Ala Arg Met Lys Leu Glu Leu Ala Arg Ser Arg Lys
35 40 45

Thr Ile Ala Gly Gly Thr Ala Ser Val Gly Ala Glu Glu Thr 50 55 60

<210> 5543

<211> 317

<212> PRT

<213> Homo sapiens

<400> 5543

Gly Gly Pro Met Lys Asp Cys Glu Tyr Ser Gln Ile Ser Thr His Ser 1 5 10 15

Ser Ser Pro Met Glu Ser Pro His Lys Lys Lys Ile Ala Ala Arg 20 25 30

Arg Lys Trp Glu Val Phe Pro Gly Arg Asn Lys Phe Phe Cys Asn Gly 35 40 45

Arg Ile Met Met Ala Arg Gln Thr Gly Val Phe Tyr Leu Thr Leu Val 50 55 60

Leu Ile Leu Val Thr Ser Gly Leu Phe Phe Ala Phe Asp Cys Pro Tyr 65 70 75 80

Leu Ala Val Lys Ile Thr Pro Ala Ile Pro Ala Val Ala Gly Ile Leu

PCT/US00/26524 WO 01/22920

4895

95 85 90 Phe Phe Phe Val Met Gly Thr Leu Leu Arg Thr Ser Phe Ser Asp Pro 105 100 Gly Val Leu Pro Arg Ala Thr Pro Asp Glu Ala Ala Asp Leu Glu Arg 120 Gln Ile Asp Ile Ala Asn Gly Thr Ser Ser Gly Gly Tyr Arg Pro Pro 135 140 130 Pro Arg Thr Lys Glu Val Ile Ile Asn Gly Gln Thr Val Lys Leu Lys 145 150 155 Tyr Cys Phe Thr Cys Lys Ile Phe Arg Pro Pro Arg Ala Ser His Cys Ser Leu Cys Asp Asn Cys Val Glu Arg Phe Asp His His Cys Pro Trp 180 185 Val Gly Asn Cys Val Gly Lys Arg Asn Tyr Arg Phe Phe Tyr Met Phe 195 200 Ile Leu Ser Leu Ser Phe Leu Thr Val Phe Ile Phe Ala Phe Val Ile 215 220 Thr His Val Ile Leu Arg Ser Gln Gln Thr Gly Phe Leu Asn Ala Leu 230 235 Lys Asp Ser Pro Ala Ser Val Leu Glu Ala Val Val Cys Phe Phe Ser 245 Val Trp Ser Ile Val Gly Leu Ser Gly Phe His Thr Tyr Leu Ile Ser 265 260

Ser Asn Gln Thr Thr Asn Glu Asp Ile Lys Gly Ser Trp Ser Asn Lys

Arg Gly Lys Glu Asn Tyr Asn Pro Tyr Ser Tyr Gly Asn Ile Phe Thr 290 295 300

Asn Cys Cys Val Ala Leu Cys Gly Pro Ser His Gln Ala 305 310 315

<210> 5544

<211> 76

<212> PRT

<213> Homo sapiens

4896

<400> 5544

Ile Val Gly Leu Phe His Met Cys Ser Leu Lys Tyr Leu Asn Asn His
1 5 10 15

Ser Phe His Ser Leu Phe Ser Ser Gln Ala Phe Ser Arg Ser Ser Met
20 25 30

Trp Ile Leu Lys Asp Leu Pro Ser Leu Thr Arg Ile Thr Phe Lys Gly 35 40 45

Asp Cys Phe Lys Ile Phe Leu Gln Ile Glu Ile Arg Thr Glu Arg Leu 50 55 60

Arg Asn Ile Val Tyr Phe Ala Lys Thr Arg Cys Leu 65 70 75

<210> 5545

<211> 117

<212> PRT

<213> Homo sapiens

<400> 5545

Glu Thr Leu Val Asn Trp Ser Thr Gly Glu Ser Tyr Lys Trp Pro Met
1 5 10 15

Ser Gln Lys Ser Trp Asp Leu Leu Pro Ala Ala Ala Asp Ala Asp Arg
20 25 30

Pro Trp Glu Ala Ala Val Leu Trp Arg Ser Trp Ser Ser Ser Phe Leu 35 40 45

Gly Leu Ala Trp Leu Pro Gln Lys Glu Gln Ser Gly Leu Glu Gly Ser 50 55 60

Ile Lys Phe Tyr Thr His Lys Leu Gln Leu Glu Val Ser Phe Leu Lys 65 70 75 80

Cys Pro Ala Phe Ala Gln Leu Phe Gln Ile Ile Ser Phe Leu Arg Leu 85 90 95

Trp Gln Val Ser Cys Pro Pro Ser Tyr Ser Ser Val Phe Thr Ser Ser 100 105 110

Arg Gln Gln Ser Gly 115

<210> 5546

4897

<211> 67 <212> PRT <213> Homo sapiens <400> 5546 Val Gln Ile Asn His Pro Asp Leu Lys Val Asn Thr Phe Tyr Phe Ser 10 Phe Arg Ser Ile Thr Glu Tyr Ala Ala Phe Arg Tyr Arg Phe Asn Leu 20 Pro Asp Phe Leu Lys Ile Leu Tyr Phe Tyr Ile Ala Thr Thr Gly Leu 40 Leu Asn Met Gln Leu Asn Cys Tyr Leu Asn Lys Leu His Leu Met Glu 55 60 Lys Lys Lys 65 <210> 5547 <211> 315 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (115) <223> Xaa equals any of the naturally occurring L-amino acids <400> 5547 Asn Ile Glu Glu Asn Glu Lys Leu Lys Ala Glu Leu Glu Lys Leu 10 Lys Ala His Leu Gly His Gln Leu Ser Met His Tyr Glu Ser Lys Thr 20 Lys Gly Thr Glu Lys Ile Ile Ala Glu Asn Glu Arg Leu Arg Lys Glu 40 Leu Lys Lys Glu Thr Asp Ala Ala Glu Lys Leu Arg Ile Ala Lys Asn Asn Leu Glu Ile Leu Asn Glu Lys Met Thr Val Gln Leu Glu Glu Thr Gly Lys Arg Leu Gln Phe Ala Glu Ser Arg Gly Pro Gln Leu Glu Gly

90

4898

Ala Asp Ser Lys Ser Trp Lys Ser Ile Val Val Thr Arg Met Tyr Glu 100 105 Thr Lys Xaa Lys Glu Leu Glu Thr Asp Ile Ala Lys Lys Asn Gln Ser 115 120 125 Ile Thr Asp Leu Lys Gln Leu Val Lys Glu Ala Thr Glu Arg Glu Gln 135 Lys Val Asn Lys Tyr Asn Glu Asp Leu Glu Gln Gln Ile Lys Ile Leu Lys His Val Pro Glu Gly Ala Glu Thr Glu Gln Gly Leu Lys Arg Glu 165 170 Leu Gln Val Leu Arg Leu Ala Asn His Gln Leu Asp Lys Glu Lys Ala 180 Glu Leu Ile His Gln Ile Glu Ala Asn Lys Asp Gln Ser Gly Ala Glu 195 200 Ser Thr Ile Pro Asp Ala Asp Gln Leu Lys Glu Lys Ile Lys Asp Leu 215 Glu Thr Gln Leu Lys Met Ser Asp Leu Glu Lys Gln His Leu Lys Glu 225 230 235 Glu Ile Lys Lys Leu Lys Lys Glu Leu Glu Asn Phe Asp Pro Ser Phe 245 250 Phe Glu Glu Ile Glu Asp Leu Lys Tyr Asn Tyr Lys Glu Glu Val Lys 265 Lys Asn Ile Leu Leu Glu Glu Lys Val Lys Leu Ser Glu Gln Leu 275 280 Gly Val Glu Leu Thr Ser Pro Val Ala Ala Ser Glu Glu Phe Glu Asp

Glu Glu Glu Ser Pro Val Asn Phe Pro Ile Tyr 305 310 315

295

<210> 5548 <211> 191

290

<212> PRT

<213> Homo sapiens

<400> 5548

Gln Leu Asn Thr Ser Ser Thr Asn His Gln Leu Pro Ser Glu His Gln

4899

1 5 10 15 Thr Ile Leu Ser Ser Arg Asp Ser Arg Asn Ser Leu Arg Ser Asn Phe 25 Ser Ser Arg Glu Ser Glu Ser Ser Arg Ser Asn Thr Gln Pro Gly Phe 40 Ser Tyr Ser Ser Ser Arg Asp Glu Ala Pro Ile Ile Ser Asn Ser Glu 55 Arg Val Val Ser Ser Gln Arg Pro Phe Gln Glu Ser Ser Asp Asn Glu Gly Arg Arg Thr Thr Arg Arg Leu Leu Ser Arg Ile Ala Ser Ser Met 90 Ser Ser Thr Phe Phe Ser Arg Arg Ser Ser Gln Asp Ser Leu Asn Thr 105 Arg Ser Leu Asn Ser Glu Asn Ser Tyr Val Ser Pro Arg Ile Leu Thr 120 125 Ala Ser Gln Ser Arg Ser Asn Val Pro Ser Ala Ser Glu Val Pro Asp 135 Asn Arg Ala Ser Glu Ala Ser Gln Gly Phe Arg Phe Leu Arg Arg Arg 150 Trp Gly Leu Ser Ser Leu Ser His Asn His Ser Ser Glu Ser Asp Ser 170 165 Glu Asn Phe Asn Gln Glu Ser Glu Gly Arg Asn Thr Gly Pro Trp 180 185 <210> 5549 <211> 127 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (57) <223> Xaa equals any of the naturally occurring L-amino acids Ala Asn Thr Ser Thr Arg Ala Ala Leu Tyr Cys Leu Phe Leu Ser Phe

4900

Ile Met Phe Ala Ser Val Leu Gln Ile Asn Pro Arg Ser Trp Leu Met 20 25 30

Lys Lys Val Ile Thr Val Leu Ala Ala Cys Leu Glu Ser Glu Asn Gln 35 40 45

Asn Ala Gln Arg Ile Gly Ala Ala Xaa Leu Trp Ala Leu Ile Tyr Asn 50 55 60

Tyr Gln Lys Ala Lys Thr Ala Leu Lys Ser Pro Ser Val Lys Arg Arg 65 70 75 80

Val Asp Glu Ala Tyr Ser Leu Ala Lys Lys Thr Phe Pro Asn Ser Glu 85 90 95

Ala Asn Pro Leu Asn Ala Tyr Tyr Leu Lys Cys Leu Glu Asn Leu Val 100 105 110

Gln Leu Leu Asn Ser Ser Leu Ser Ala His Gly Met Pro Thr Pro 115 120 125

<210> 5550

<211> 89

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5550

Leu Asn His Leu Gln Asn Ala Ser Thr Pro Gly Tyr Ser Lys Leu Pro
1 5 10 15

Phe Gln Ile His Phe Gln Thr Ala Leu Thr Trp Ala Ser His Trp Xaa 20 25 30

Ser Trp Leu Leu Val Gly Ala Ile Ser Cys Val Asp Pro Gln Val Arg 35 40 45

Gly Pro Gly Pro Pro Ala Pro Pro Xaa Gln Arg Gly Glu Pro Ala Gln
50 55 60

4901

Phe Phe Trp Ser Leu Lys Cys Val Pro Leu Leu Val Ala Arg Ser Pro 65 70 75 80

. Gln Trp Gly Gly Leu Thr Arg Thr Arg 85

<210> 5551

<211> 98

<212> PRT

<213> Homo sapiens

<220>

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<222> (81)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (84)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5551

Ala Arg Gln Val Lys Ser Leu Arg Asp Pro Ser Ala Lys Met Ser Lys

1 5 10 15

Ser Asp Pro Asp Lys Leu Ala Thr Val Arg Ile Thr Asp Ser Pro Glu 20 25 30

Glu Ile Val Gln Lys Phe Arg Lys Ala Val Thr Asp Phe Thr Ser Glu 35 40 45

Val Thr Tyr Asp Pro Ala Gly Arg Ala Gly Val Ser Asn Ile Val Ala 50 55 60

Val His Ala Ala Val Thr Gly Leu Ser Val Glu Glu Val Val Arg Arg 65 70 75 80

Xaa Ala Gly Xaa Glu His Cys Ser Leu Gln Ala Gly Arg Gly Arg Cys 85 90 95

Cys Asp

<210> 5552

<211> 74

<212> PRT

<213> Homo sapiens

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<400> 5552
Thr Glu Glu Val Asp Ser Val Ala Val Ser Val Leu Ala Leu Gly Ser
                                     10
Arg Ile Gly Glu Leu Arg Ala Pro Ile Trp Asp Glu Glu Ser Arg Lys
                                 25
Gln Leu Ser Ile Ser Ile Lys Arg Ala Glu Gln Pro Leu Ser Leu His
         35
                             40
Pro Pro Ser Ala Leu Phe Ser Leu Pro Pro Ser Leu Leu Ser Phe His
Ser Val Tyr Val Ser Phe Gly Pro Ile Pro
                     70
<210> 5553
<211> 65
<212> PRT
<213> Homo sapiens
<400> 5553
Gly Thr Gly Ser Gln Cys Thr Gln His Gly Ala Ile Ser Asp Val Ile
                                     10
Gln Arg Met Arg Gln Asp Lys Ser Tyr Cys Leu Ile Lys Gly Lys Leu
                                 25
Gly Thr Gly Met Leu Phe Lys Leu Arg Lys Ile Phe Trp Gly Val Lys
         35
                             40
                                                  45
Leu Asp Ser Thr Glu Ser Leu Glu Lys Leu Ala Trp Arg Glu Lys Arg
     50
                         55
His
 65
<210> 5554
<211> 82
<212> PRT
<213> Homo sapiens
<220>
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<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids
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<222> (26)
<223> Xaa equals any of the naturally occurring L-amino acids
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<221> SITE
<222> (42)
<223> Xaa equals any of the naturally occurring L-amino acids
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<221> SITE
<222> (45)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (54)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (75)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5554
Ala Pro Thr Asn Leu Phe Phe Phe Phe Phe Glu Thr Glu Ser Gly
                                     10
Cys Ala Ser His Phe Leu Ser Phe Xaa Xaa Ser Glu Leu Thr Glu Gln
                                 25
             20
Pro Gly Arg Cys Gly Phe Arg Ser Leu Xaa Leu Ser Xaa Cys Ala Lys
                             40
Cys Trp Gly Arg Arg Xaa Gln Arg Val Asp Ser Gly Met Val Pro Ala
     50
                          55
Ala Ser His Phe Tyr Ala Lys Pro Asp Phe Xaa Ser His Pro Gly Gly
                      70
                                          75
Gln Phe
<210> 5555
<211> 47
<212> PRT
<213> Homo sapiens
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<400> 5555

4904

Ile Phe Ile Ile Glu Val Ser Phe Pro Leu Gly Ile Ser Leu Ser Leu 10 Phe Phe Phe Asn Glu Asn Gln Ser Thr Glu Tyr Phe Val Ser Pro Arg 25 Lys Thr Pro Gln Leu Ser Ile Met Leu Ser Thr Arg Glu Lys Leu 35 40 <210> 5556 <211> 112 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (103) <223> Xaa equals any of the naturally occurring L-amino acids Gly Asn Cys Gln Lys Cys Ala Phe Gly Tyr Ser Gly Leu Asp Cys Lys 5 Asp Lys Phe Gln Leu Ile Leu Thr Ile Val Gly Thr Ile Ala Gly Ile 25 Val Ile Leu Ser Met Ile Ile Ala Leu Ile Val Thr Ala Arg Ser Asn 35 40 Asn Lys Thr Lys His Ile Glu Glu Glu Asn Leu Ile Asp Glu Asp Phe 50 Gln Asn Leu Lys Leu Arg Ser Thr Gly Phe Thr Asn Leu Gly Ala Glu 70 Gly Ser Val Phe Pro Lys Val Arg Ile Thr Ala Ser Arg Asp Ser Gln 90 Met Gln Asn Pro Tyr Ser Xaa His Ser Ser Met Pro Arg Pro Asp Tyr 105 110

<210> 5557

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<211> 152
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (143)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (147)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (151)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5557
Phe Thr Ala Arg Ser Pro Trp Glu Tyr Thr Asn Leu Cys Ser Arg Gln
Leu Gly Ala Ser Leu Leu Glu Thr Val Leu Ile Phe Phe Leu Ser
            20
                               25
Glu Phe Gln Leu Ile Leu Thr Ile Val Gly Thr Ile Ala Gly Ile Val
                           40
Ile Leu Ser Met Ile Ile Ala Leu Ile Val Thr Ala Arg Ser Asn Asn
     50
                        55
Lys Thr Lys His Ile Glu Glu Glu Asn Leu Ile Asp Glu Asp Phe Gln
                    70
                                       75
 65
Asn Leu Lys Leu Arg Ser Thr Gly Phe Thr Asn Leu Gly Ala Glu Gly
Ser Val Phe Pro Lys Val Arg Ile Thr Ala Ser Arg Asp Ser Gln Met
           100
                              105
                                                 110
Gln Asn Pro Tyr Ser Ser His Thr Gln Lys Lys Lys Lys Lys Lys
        115
                          120
135
                                          140
Lys Lys Xaa Lys Lys Xaa Gly
                   150
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<210> 5558
<211> 169
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (4)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (44)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5558
Phe Phe Phe Xaa Val Xaa Glu Lys Ser Ile Leu Leu Val Ser Leu Xaa
Val Cys Leu Val Leu Ser Glu Ile Pro Phe Met Ser Thr Trp Phe Leu
             20
                                  25
Leu Val Ser Thr Phe Ser Met Leu Pro Leu Leu Xaa Lys Asp Glu Leu
         35
                              40
Leu Met Pro Ser Val Val Thr Thr Met Ala Phe Phe Ile Ala Cys Val
                          55
Thr Ser Phe Ser Ile Phe Glu Lys Thr Ser Glu Glu Glu Leu Gln Leu
                     70
                                         75
Lys Ser Phe Ser Ile Ser Val Arg Lys Tyr Leu Pro Cys Phe Thr Phe
                 85
                                     90
Leu Ser Arg Ile Ile Gln Tyr Leu Phe Leu Ile Ser Val Ile Thr Met
            100
                                105
Val Leu Leu Thr Leu Met Thr Val Thr Leu Asp Pro Pro Gln Lys Leu
        115
                            120
                                                 125
```

4907

Pro Asp Leu Phe Ser Val Leu Val Cys Phe Val Ser Cys Leu Asn Phe 130 135 140

Leu Phe Phe Leu Val Tyr Phe Asn Ile Ile Ile Met Trp Asp Ser Lys 145 150 155 160

Ser Gly Arg Asn Gln Lys Lys Ile Ser 165

<210> 5559

<211> 67

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5559

Gly Trp Arg His Gly Gly Glu His His Gln Asp His Val Glu Leu Gly
1 5 10 15

Arg Asp Cys Pro Pro Lys Lys Asn Ile Gly Pro Leu Gln Ala Gln Pro 20 25 30

Pro Leu Pro Leu Glu Phe Phe Ser Gln Ala Gln Cys Gln Lys Phe Ser 35 . 40 45

Leu Gly Trp Xaa Gln Ile Cys Xaa Thr Gly Phe Pro Xaa Ser Ser Thr 50 55 60

Leu Pro Pro

65

<210> 5560

<211> 115

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<212> PRT
<213> Homo sapiens
<220>
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<222> (109)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5560
Ser Ser Lys Cys Gly Phe Ser Cys Ile Ser Gln Ile Gly Arg Pro Gly
                  5
Val Val Gly Val Pro Gly Gly Arg Leu Trp Ala Gly Ser Gln Asp Pro
                                                      30
Pro Phe Leu Gly Gly Asp Arg Ala Cys Gly Ala Ala Pro Arg Asn Val
Arg Arg Lys Arg Glu Arg Ala Leu Ala Pro Ser Ala Ser Cys Leu Arg
                         55
Cys Trp Arg Leu Pro Ile Arg Trp Phe Tyr Pro Gln Thr Pro Gly His
 65
                     70
                                          75
Arg Glu Ser Arg Arg Lys Gly Gln Pro Arg Ile Pro Ala Gly Phe Leu
                 85
                                      90
His Arg Gly Ala Ser Gln Phe Leu His Leu Ile Phe Xaa Ser Cys Gly
                                105
Arg Cys Tyr
        115
<210> 5561
<211> 210
<212> PRT
<213> Homo sapiens
<220>
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<222> (137)
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<220>
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<221> SITE
<222> (197)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (210)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5561
Glu Glu Ala Ala Lys Ala Ala Gly Thr His Phe Thr Ser Gln Gln Leu
Gln Glu Leu Glu Ala Thr Phe Gln Arg Asn Arg Tyr Pro Asp Met Ser
             20
                                 25
Thr Arg Glu Glu Ile Ala Val Trp Thr Asn Leu Thr Glu Ala Arg Val
                             40
Arg Val Trp Phe Lys Asn Arg Arg Ala Lys Trp Arg Lys Arg Glu Arg
     50
                         55
Asn Gln Gln Ala Glu Leu Cys Lys Asn Gly Phe Gly Pro Gln Phe Asn
                     70
                                          75
Gly Leu Met Gln Pro Tyr Asp Asp Met Tyr Pro Gly Tyr Ser Tyr Asn
Asn Trp Ala Ala Lys Gly Leu Thr Ser Ala Ser Leu Ser Thr Lys Ser
            100
Phe Pro Phe Asn Ser Met Asn Val Asn Pro Leu Ser Ser Gln Ser
        115
                            120
                                                 125
Met Phe Ser Pro Pro Asn Ser Ile Xaa Ser Met Ser Met Xaa Ser Ser
                        135
                                             140
```

4910

Met Val Pro Ser Ala Val Thr Gly Val Pro Gly Ser Ser Leu Asn Ser 145 150 155 160

Leu Asn Asn Leu Asn Asn Leu Ser Ser Pro Xaa Leu Asn Ser Ala Val 165 170 175

Pro Thr Xaa Ala Cys Pro Tyr Ala Pro Pro Thr Ser Ser Val Cys Leu 180 185 190

Xaa Gly His Val Xaa Ser Ser Leu Ala Ser Leu Arg Leu Lys Ala Lys 195 200 205

Gln Xaa 210

<210> 5562

<211> 101

<212> PRT

<213> Homo sapiens

<400> 5562

Thr Leu Thr Val Gln Val Val His Cys Asn Glu Val Thr His Ile Cys
1 5 10 15

Trp Leu His Lys Leu Gln Val Leu Leu Ser Gln Tyr Gly Thr Leu Asn 20 25 30

Cys Asp Val Val Gln Gln Leu Pro Ala Ser Ser Gln Leu Ile Arg Cys 35 40 45

Glu Tyr Phe Gly Leu Asp Leu Gln Pro Asp Ala Val Leu Gln Pro Lys
50 55 60

Lys Lys Val Glu Pro Met Ile Lys Asn Cys Ser Gln Asp Glu Pro Gly 65 70 75 80

Lys Lys Ser Ala Lys Leu Pro Trp Arg Ser Ala Gly Thr Leu Val Met 85 90 95

Thr Gly Ile Thr Pro 100

<210> 5563

<211> 117

<212> PRT

<213> Homo sapiens

<220> <221> SITE <222> (94) <223> Xaa equals any of the naturally occurring L-amino acids <400> 5563 Ile Pro Pro Ala Gln Leu Trp Gln Arg Leu Leu Ala Leu Val Ile Ser 10 Ser Ile Ile Gln Ile His Tyr His Pro Asn Pro Ser Pro Ile Phe Gly 25 Leu Gly Glu Lys Asn Met Asn Tyr Asp Asp Arg Thr Ser Ser Lys Pro 40 Ser Pro Val Leu Ser Glu Tyr Pro Phe Trp Gly Cys Ile Pro Gln Lys 55 Pro Ile Trp Gly Pro Ile Ser Met Tyr Thr Glu Leu Lys Phe Gln Val Pro Leu Cys Ile Lys Arg Ser Gln Asn Phe Gly Gln Ala Xaa Gly Thr 90 85 Leu Lys Ser His Gln Cys Asn Tyr Thr Leu Glu Ile Ile Asn Pro Ser 100 105 His Asp Tyr Ile Ser 115 <210> 5564 <211> 55 <212> PRT <213> Homo sapiens <400> 5564 Leu Pro Val Phe Glu Asp Val Gly Arg Val Cys Lys Tyr Ser Ala Phe Pro Leu Thr His Ala Gly Glu Asp Ala Ser Ser Leu Ala Pro Ala Val 25 Arg Ala Gln Ile Ala Arg Val Lys Thr Ser Ser Leu Gly Arg Glu Val 40

Cys Arg Gly Leu Glu Val Ile

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<210> 5565
<211> 47
<212> PRT
<213> Homo sapiens
<400> 5565
Lys Leu Lys Glu Ile Lys Lys Leu Leu Glu Glu Asn Ala Gly Ile Asn
                                     10
Leu Tyr Asp Leu Arg Leu Gly Ser Gly Phe Leu Asp Met Thr Pro Lys
                                 25
Ala Lys Gln Gln Lys Lys Glu Asn Leu Lys Trp Met Ser Ser Glu
                            40
<210> 5566
<211> 36
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (18)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (20)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5566
Gly Pro Val Leu His Gln Arg Ile Leu Ile Ser Ala Ser Gly Val Gly
                  5
                                     10
                                                          15
Glu Xaa Arg Xaa Ile Tyr Ile Gly Gln Asn Arg Gly Val Glu Gln Asp
             20
Tyr Ser Ile Phe
        35
<210> 5567
<211> 67
<212> PRT
<213> Homo sapiens
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<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5567
Pro Gly Ala Val Val Gly Val Xaa Arg Val Met Thr Trp Ser Gly Trp
                                     10
Ala Trp Ala Asp Val His Ile Val Cys Thr Leu Asp Pro Trp Pro Arg
                                 25
             20
Arg Thr Gln Ile Leu Thr Ser Arg Asn Phe His Leu Met Asn Ile Met
                             40
Arg Ile Gly Gly Lys Glu Asn Ser Leu Tyr Arg Ile Asn Pro Ser Phe
     50
Leu Gln Gly
 65
<210> 5568
<211> 83
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (46)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (49)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5568
Glu Asn Ala Phe Gln Asp Leu Ser Ser Thr His Pro Leu Ser Leu Pro
                                      10
Gln Pro His Ile Trp Gly His Asn Ser Thr Cys Val Lys Asp Asn Leu
Leu Leu Phe Thr Glu Pro Pro Gly Ile Gln Asp Asn Lys Xaa Leu His
                              40
                                                  45
Xaa Asp Gln Gln Val Ser Phe Ser Ala Pro Ser Phe Ile Thr Pro Phe
                                              60
     50
                          55
```

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Phe Pro Ser Glu Val His Thr His Pro Tyr Met Ala Ala Val Gly Ile
                     70
Ser Thr Gly
<210> 5569
<211> 58
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (39)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5569
Met Val Leu Ser Pro Ser Gly Val Ser Lys Cys Ile Arg Lys Gln Asn
                  5
Ser Val Val Ser His Ser Ser Leu Cys Ala Arg Cys Leu Arg Arg Gly
             20
                                 25
Ser Tyr Arg Ser Pro Arg Xaa Asn Gln Ala His Leu Ser Leu Gly Val
Gly Gln Ser Gly Lys Ala Phe Trp Lys Met
     50
<210> 5570
<211> 109
<212> PRT
<213> Homo sapiens
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<221> SITE
<222> (90)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (97)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5570
Ser His Thr Thr Lys Asn Thr Asp Phe Thr Asp Leu Val Leu Glu Asn
                  5
                                     10
```

4915

His Tyr Thr Asn Ser Asn Asn Ala Pro Gly Thr Lys Gly Glu Glu
20 25 30

Met Ser Ser Arg Val Gly Ile Leu Phe Lys Cys Leu Val Phe Asn Lys
35 40 45

Asn Asn Tyr Lys Thr Gln Ser Lys Thr Arg Lys Tyr Gly Pro Tyr Pro 50 55 60

Gly Lys Asn Lys Gln Pro Ile Glu Ala Val Leu Glu Glu Val Asn Ile 65 70 75 80

Leu Asp Leu Leu Glu Asn Asp Phe Asn Xaa Ser Ile Ile Asn Met Phe 85 90 95

Xaa Lys Leu Lys Glu Ala Arg Cys Gly Gly Ser Arg Leu 100 105

<210> 5571

<211> 101

<212> PRT

<213> Homo sapiens

<400> 5571

Asn Asp Asn Lys Gly Phe Arg Thr Ile Thr Ala Ser Ala Pro Gly Pro 1 5 10 15

Thr Pro Ser Ser Glu Arg Arg Ser Val Val Gly Asn Met Leu Ser Asn 20 25 30

Ser Val Thr Cys Tyr Arg Gly Ile Phe Gly Glu Arg Lys Ser Gln Cys 35 40 45

Gly Lys Leu His Cys Cys Leu Ile Leu Ile Ala Thr Ala Thr Ser Thr 50 55 60

Phe Ser Asn His His Pro Asp Ser Val Ser Ser His Gln His Gln Gly 65 70 75 80

Glu Thr Leu Tyr His Gln Lys Asp Tyr Asn Leu Leu Lys Ala Gln Met 85 90 95

Ile Ile Ser Ile Phe 100

<210> 5572

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<211> 40
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<212> PRT

<213> Homo sapiens

<400> 5572

Asp Arg His Ala Leu Gln Ile Phe Leu Tyr Lys Ser Gly Ser Leu Phe 1 5 10 15

Pro Ile Val Leu Thr Leu Arg Leu Ser Val Gly Leu Pro Ile Arg Phe 20 25 30

Thr Ala Val Gln Val His Lys Met 35 40

<210> 5573

<211> 59

<212> PRT

<213> Homo sapiens

<400> 5573

Ser Trp Tyr Ala Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser Thr His 1 5 10 15

Ala Ser Ala Lys Ile Arg Thr Ala His Arg Arg Val Met Ile Leu Asn 20 25 30

His Pro Asp Lys Gly Gly Ser Pro Tyr Val Ala Ala Lys Ile Asn Glu 35 40 45

Ala Lys Asp Leu Leu Glu Thr Thr Thr Lys His 50 55

<210> 5574

<211> 51

<212> PRT

<213> Homo sapiens

<400> 5574

Ser Lys Asp Leu Val Phe Phe Thr Gln His Val Ser Arg Ile His Lys

1 5 10 15

Phe Tyr Cys Phe Ile Ala Val Ile Phe Ile Asp Val Tyr Phe Ile Val 20 25 30

Gly Leu Tyr Asn Ile Leu Leu Arg Asn Thr Tyr Ile Tyr Asn Lys Leu 35 40 45

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<210> 5575
<211> 60
<212> PRT
<213> Homo sapiens
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<222> (47)
<223> Xaa equals any of the naturally occurring L-amino acids
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<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (51)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5575
Tyr Cys Ser Phe Ser Ser Phe Phe Ala Val Ala Ser Ser Ser Leu Val
                                     10
Lys Thr Leu Lys Lys Asn Thr Ala Leu Pro Trp Glu Ile Ile Thr Leu
             20
                                  25
                                                      30
Pro Asn Thr Pro Leu Val Gly Asn Lys Arg Phe Tyr Gly Thr Xaa Xaa
Lys Lys Xaa Ser Thr Cys Pro Phe Phe Leu Pro Val
     50
                         55
<210> 5576
<211> 72
<212> PRT
<213> Homo sapiens
<400> 5576
Ser Ser Gln Ile Lys Pro Pro Glu Ser Pro His Tyr Lys Ile Gln Ser
                  5
                                      10
Tyr His Ala Ser Leu Pro Ser Val Tyr Lys Ile Cys Pro Ser Leu Gln
```

25

20

Tyr Ile Phe 50

```
Leu Gly Glu Thr Asp Leu Gly Gln Thr Pro Val Ser Leu Leu Gly Cys 35 40 45
```

Leu Ala Ile Asn Phe Ser Leu Tyr Lys Thr Pro Val Leu Gln Cys Leu 50 55 60

Val Phe Gln Cys Glu Pro Gly Asn 65 70

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<210> 5577
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<211> 64

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5577

Val Leu Asn Lys Ser Leu Leu Tyr Glu Asn Lys Gln Tyr Phe Leu Tyr 1 5 10 15

Leu Ser Phe Gly Cys Ile Phe Pro Tyr Phe Val Ile Ser Phe Phe Leu
20 25 30

Thr Phe Tyr Xaa Xaa Ile Leu Thr Leu Phe Leu Ser Phe Ala Ser Val 35 40 45

Phe Pro Arg Arg Val Leu Trp Leu Lys Cys Ile Thr Cys Lys Ile Glu 50 55 60

<210> 5578

<211> 43

<212> PRT

<213> Homo sapiens

<220>

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<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5578
Met Asp Xaa Gln Thr Asn Gly Thr Lys Leu Arg Ser Gln Ile Glu Ile
                                     10
Asn Gln Ser Val Asp Leu Leu Ile Tyr Gly Asn Val Phe Cys Glu Ile
                                 25
             20
Tyr Gln Leu Met Gly Lys Arg Leu Phe Lys Thr
<210> 5579
<211> 143
<212> PRT
<213> Homo sapiens
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<222> (69)
<223> Xaa equals any of the naturally occurring L-amino acids
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<221> SITE
<222> (70)
<223> Xaa equals any of the naturally occurring L-amino acids
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<222> (118)
<223> Xaa equals any of the naturally occurring L-amino acids
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<222> (123)
<223> Xaa equals any of the naturally occurring L-amino acids
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<222> (127)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
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<222> (129)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
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<222> (130)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
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<223> Xaa equals any of the naturally occurring L-amino acids
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<222> (136)
<223> Xaa equals any of the naturally occurring L-amino acids
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<222> (137)
<223> Xaa equals any of the naturally occurring L-amino acids
Thr Ser Gly Ile Gly Thr Ser Pro Ser Leu Arg Ser Leu Gln Ser Leu
                  5
Leu Gly Pro Ser Ser Lys Phe Arg His Ala Gln Gly Thr Val Leu His
             20
                                  25
Arg Asp Ser His Ile Thr Asn Leu Lys Gly Leu Asn Leu Thr Thr Pro
                             40
Gly Glu Ser Asp Gly Phe Cys Ala Asn Lys Leu Arg Val Ala Val Pro
     50
                         55
                                              60
Leu Leu Ser Ser Xaa Xaa Gln Val Ala Val Leu Glu Leu Arg Lys Pro
 65
                     70
                                          75
Gly Arg Leu Pro Asp Thr Ala Leu Pro Thr Leu Gln Asn Gly Ala Ala
                                      90
Val Thr Asp Leu Ala Trp Asp Pro Phe Asp Pro His Arg Leu Ala Val
            100
                                 105
```

4921

Ala Gly Glu Asp Ala Xaa Ile Arg Leu Trp Xaa Val Pro Ala Xaa Gly 115 120 125

Xaa Xaa Arg Xaa Xaa His Xaa Xaa Xaa Asn Cys Ala Tyr Lys Ala 130 135 140

<210> 5580

<211> 67

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5580

Ser Asn Ser Leu Gln Val Trp Gly Trp Gln Ile Leu Ala Pro Leu Lys 1 5 10 15

Trp Ile Pro His Ala His Ala Ser Leu Phe Phe Ser Val Ala Arg Gly
20 25 30

Xaa Met Asp Lys Pro Lys Leu Gln Leu Lys Thr Xaa His Arg Pro Gly 35 40 45

Thr Val Thr His Ala Phe Asn Ile Ser Thr Leu Gly Xaa Gln Gly Gly 50 55 60

Arg Ile Thr

65

<210> 5581

<211> 66

<212> PRT

<213> Homo sapiens

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<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (18)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5581
Gly Leu Pro Lys Ala Gln Gln Gln Leu Leu Leu Ile Leu Gln Xaa
                 5
Pro Xaa Pro Arg Pro Ala Phe His Pro Lys Pro His Leu Val Ser Met
            20
                               25
Ser Ile Ser Thr Val Trp Pro Ser Cys Asp Cys Ser Leu Ala Ala Thr
                            40
Pro Ser Val Ile Pro His Ser Glu Ser Ser Phe Ser Gly Ser Leu Ala
    55 60
Phe Ser
 65
<210> 5582
<211> 53
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (33)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5582
Ser Leu Ile Ser Asp Ala Leu Arg Phe Leu Arg Ser Glu Met Ile Lys
                5
Leu Tyr Ser Leu Val Tyr Trp Tyr Phe Phe Thr Ser Ser Glu Ile Gly
            20
Xaa Met Leu Tyr Val Arg Arg Ala Phe Phe Lys Leu Cys Cys Phe Glu
His Val Tyr Leu Phe
    50
```

<210> 5583 <211> 58 <212> PRT <213> Homo sapiens <400> 5583 Gln Gly Lys Lys Ser Ala Val Cys Leu Val Phe Ile Phe Val Phe Thr 10 Gln Val Gly Leu Leu Phe Glu Thr Phe Phe Leu Asn Lys Arg Ser Tyr 25 Lys Val Phe Thr Phe Ser Pro Ser Lys Asn Pro Ile Phe Leu Glu Phe 40 Gly Leu Ser Ile Ile Ser Gly Ile Lys Glu 55 <210> 5584 <211> 78 <212> PRT <213> Homo sapiens <400> 5584 Thr Thr Val Asn Ile His Val Gly Gly Gly Arg Leu Arg Pro Ala 5 10 Lys Ala Gln Val Arg Leu Asn His Pro Ala Leu Leu Ala Ser Thr Gln 20 25 Glu Ser Met Gly Leu His Arg Ala Gln Gly Leu Leu Met Pro Pro Ser 40 Thr Cys Glu Pro Gly His Glu Ala Ser Leu Lys Gln Gly Phe Gln Pro 60 50 55 Asp Ala Ile Asp Pro Gln Asn Leu Thr Trp Lys Ser Arg His 65 70 75

<210> 5585 <211> 54 <212> PRT <213> Homo sapiens

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<220>
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<222> (26)
<223> Xaa equals any of the naturally occurring L-amino acids
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<221> SITE
<222> (40)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5585
Ile Ser Lys Gln Leu Tyr Phe Phe Ile Gln Ala Cys His Cys Glu Pro
Val Leu Ile Val Ser Glu Leu Phe Val Xaa Pro Glu Phe Cys Leu Leu
             20
                                 25
Ile Ser Phe Gln Leu His Ser Xaa Ser Phe Phe Asn Cys Val Gly Gly
         35
                             40
                                                  45
Lys Asn Asn Gly Arg Asn
     50
<210> 5586
<211> 89
<212> PRT
<213> Homo sapiens
<400> 5586
Leu Tyr Ser Phe Ser Ser Leu Leu Pro Leu Ser Pro Arg Trp Lys Lys
                                     10
                                                          15
Arg Thr Asn Val Glu Thr Pro Glu Gly Val Gln Leu Asp Gln Gly Asp
                                 25
Ile Arg His Leu Thr Val Phe Ser Val Cys Pro Ser Leu Tyr Ser Asn
         35
                             40
                                                  45
Val Arg Asn Gly Ser Val Phe Phe Phe Thr Phe Ile Gly Ser Ser Tyr
     50
                         55
Phe Ser Thr Leu Phe Leu Met Cys Ser Phe Phe Asn Trp Leu Val Phe
                     70
                                         75
Pro Tyr Tyr Leu Gln Leu Tyr Gly Leu
```

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<210> 5587
<211> 53
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (18)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (41)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5587
Gln Lys Asn Pro Leu Met Val Cys Phe Leu Tyr Trp Ala Thr Gln Trp
Cys Xaa Lys Val Tyr Met Lys Pro Gln Cys Lys Gln Gly Leu Ser Ser
                                 25
Gln Asp Ile Asn Phe Asp Arg Lys Xaa Cys Val Phe Met Cys Val Cys
         35
                             40
Val Ser Gly Cys Asn
     50
<210> 5588
<211> 46
<212> PRT
<213> Homo sapiens
<400> 5588
Phe Cys Lys Tyr Asn Asn Asn Ser Asn Asn Thr Ile Leu Ser Phe Lys
                 5
                                     10
                                                          15
Lys Leu Pro Ile His Phe Ser Asn Leu Thr Val Ser Gly Gly Val Tyr
             20
                                 25
Val Cys Leu Cys Phe His Leu Cys Asn Gly Cys Leu Ile Ile
                             40
<210> 5589
<211> 58
<212> PRT
<213> Homo sapiens
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<220>

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<221> SITE
<222> (32)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (53)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5589
Cys Leu Thr Met Ala Ser Glu His Val Lys Cys Thr Tyr Ile Leu Gln
                  5
                                     10
Pro Lys Thr Val Cys Ile Lys Leu Gln Pro Ser Ile Ile Lys Phe Xaa
             20
Val Gln Phe Gln Asp Gly Asn Gln Gly Phe Phe Arg Asp Val Lys
                              40
Lys Ser Pro Ser Xaa Ile Ile Leu Asn Leu
     50
<210> 5590
<211> 78
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (63)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (74)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5590
Gln Leu Asn Phe Met Asn Met Phe Val Lys Leu Leu Phe Tyr Ile Ser
                                     10
Cys Gln Ile Glu Lys Phe Ile Ser Ser Leu Leu Tyr Leu Trp Lys Tyr
             20
Lys Pro Phe Tyr Arg Lys Lys Ser Ser Lys Thr Ile Lys Trp Ile Ser
        35
                             40
```

4927

Ala Cys Phe Val Ser His Cys Leu Gln Ile Leu Trp Leu Ser Xaa Gly 55 His Arg Ala Leu Val Gly Cys Thr Gly Xaa Pro Ile Phe Pro 70 <210> 5591 <211> 42 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (1) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (16) <223> Xaa equals any of the naturally occurring L-amino acids <400> 5591 Xaa Thr Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser Thr Ala Val Xaa 5 Thr Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg 20 25 Gly Thr Ala Lys Val Tyr Gly Met Val Cys 35 <210> 5592 <211> 502 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (128) <223> Xaa equals any of the naturally occurring L-amino acids <400> 5592 Pro Val Ala Ala Val Ser Gly Arg Ala Val Gly Gly Ser Arg Gly Gly 10 Gly Arg Gly Gly Met Ala Ala Ala Ala Gly Ala Gly Ser Gly Pro

25

Trp	Ala	Ala 35	Gln	Glu	Lys	Gln	Phe 40	Pro	Pro	Ala	Leu	Leu 45	Ser	Phe	Phe
Ile	Туг 50	Asn	Pro	Arg	Phe	Gly 55	Pro	Arg	Glu	Gly	Gln 60	Glu	Glu	Asn	Lys
Ile 65	Leu	Phe	Tyr	His	Pro 70	Asn	Glu	Val	Glu	Lys 75	Asn	Glu	Lys	Ile	Arg 80
Asn	Val	Gly	Leu	Суs 85	Glu	Ala	Ile	Val	Gln 90	Phe	Thr	Arg	Thr	Phe 95	Ser
Pro	Ser	Lys	Pro 100	Ala	Lys	Ser	Leu	His 105	Thr	Gln	Lys	Asn	Arg 110	Gln	Phe
Phe	Asn	Glu 115	Pro	Glu	Glu	Asn	Phe 120	Trp	Met	Val	Met	Val 125	Val	Arg	Xaa
Pro	Ile 130	Ile	Glu	Lys	Gln	Ser 135	Lys	Asp	Gly	Lys	Pro 140	Val	Ile	Glu	Туr
Gln 145	Glu	Glu	Glu	Leu	Leu 150	Asp	Lys	Val	Ţyr	Ser 155	Ser	Val	Leu	Arg	Gln 160
Cys	Tyr	Ser	Met	Туг 165	Lys	Leu	Phe	Asn	Gly 170	Thr	Phe	Leu	Lys	Ala 175	Met
Glu	Asp	Gly	Gly 180	Val	Lys	Leu	Leu	Lys 185	Glu	Arg	Leu	Glu	Lys 190	Phe	Phe
His	Arg	Туг 195	Leu	Gln	Thr	Leu	His 200	Leu	Gln	Ser	Cys	Asp 205	Leu	Leu	Asp
Ile	Phe 210	Gly	Gly	Ile	Ser	Phe 215	Phe	Pro	Leu	Asp	Lys 220	Met	Thr	Tyr	Leu
Lys 225	Ile	Gln	Ser	Phe	Ile 230	Asn	Arg	Met	Glu	Glu 235	Ser	Leu	Asn	Ile	Val 240
Lys	Tyr	Thr	Ala	Phe 245	Leu	Tyr	Asn	Asp	Gln 250	Leu	Ile	Trp	Ser	Gly 255	Leu
Glu	Gln	Asp	Asp 260	Met	Arg	Ile	Leu	Туг 265	Lys	Tyr	Leu	Thr	Thr 270	Ser	Leu
Phe	Pro	Arg 275	His	Ile	Glu	Pro	Glu 280	Leu	Ala	Gly	Arg	Asp 285	Ser	Pro	Ile
Arg	Ala 290	Glu	Met	Pro	Gly	Asn 295	Leu	Gln	His	Tyr	Gly 300	Arg	Phe	Leu	Thr

Gly Pro Leu Asn Leu Asn Asp Pro Asp Ala Lys Cys Arg Phe Pro Lys 305 315 Ile Phe Val Asn Thr Asp Asp Thr Tyr Glu Glu Leu His Leu Ile Val 330 325 Tyr Lys Ala Met Ser Ala Ala Val Cys Phe Met Ile Asp Ala Ser Val 345 340 His Pro Thr Leu Asp Phe Cys Arg Arg Leu Asp Ser Ile Val Gly Pro 360 Gln Leu Thr Val Leu Ala Ser Asp Ile Cys Glu Gln Phe Asn Ile Asn 370 375 380 Lys Arg Met Ser Gly Ser Glu Lys Glu Pro Gln Phe Lys Phe Ile Tyr 385 390 395 Phe Asn His Met Asn Leu Ala Glu Lys Ser Thr Val His Met Arg Lys 410 Thr Pro Ser Val Ser Leu Thr Ser Val His Pro Asp Leu Met Lys Ile 430 420 425 Leu Gly Asp Ile Asn Ser Asp Phe Thr Arg Val Asp Glu Asp Glu Glu 440 435 Ile Ile Val Lys Ala Met Ser Asp Tyr Trp Val Val Gly Lys Lys Ser 460 Asp Arg Arg Glu Leu Tyr Val Ile Leu Asn Gln Lys Asn Ala Asn Leu 470 475 Ile Glu Val Asn Glu Glu Val Lys Lys Leu Cys Ala Thr Gln Phe Asn 485 490 Asn Ile Phe Phe Leu Asp

<210> 5593

<211> 62

<212> PRT

<213> Homo sapiens

500

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5593 Asn Pro Gly Ile Leu Ser Pro Ser Asn Leu Lys Val Phe Lys Leu Ile Leu Phe Tyr Val Phe Leu Ala Val Tyr Val Leu Leu Lys Ser Leu Ser 20 25 Phe Cys Val Lys Ile Cys Leu Ser Leu Leu His Phe Thr Ala Ser Lys 40 Ile Lys Asn Thr Tyr Ile Leu Leu Xaa Ile Asp Ala Ser Lys 55 <210> 5594 <211> 453 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (327) <223> Xaa equals any of the naturally occurring L-amino acids <400> 5594 Ser Ile Phe Arg Val Ser Pro Gly Phe Arg Ile Ala Met Ile Ile Pro 10 Ser Leu Glu Glu Leu Asp Ser Leu Lys Tyr Ser Asp Leu Gln Asn Leu 25 Ala Lys Ser Leu Gly Leu Arg Ala Asn Leu Arg Ala Thr Lys Leu Leu 35 40 Lys Ala Leu Lys Gly Tyr Ile Lys His Glu Ala Arg Lys Gly Asn Glu Asn Gln Asp Glu Ser Gln Thr Ser Ala Ser Ser Cys Asp Glu Thr Glu 70 Ile Gln Ile Ser Asn Gln Glu Glu Ala Glu Arg Gln Pro Leu Gly His 85 90 95 Val Thr Lys Thr Arg Arg Cys Lys Thr Val Arg Val Asp Pro Asp 100 105 Ser Gln Gln Asn His Ser Glu Ile Lys Ile Ser Asn Pro Thr Glu Phe 115 120

Gln	Asn 130	His	Glu	Lys	Gln	Glu 135	Ser	Gln	Asp	Leu	Arg 140	Ala	Thr	Ala	Lys
Val 145	Pro	Ser	Pro	Pro	Asp 150	Glu	His	Gln	Glu	Ala 155	Glu	Asn	Ala	Val	Ser 160
Ser	Gly	Asn	Arg	Asp 165	Ser	Lys	Val	Pro	Ser 170	Glu	Gly	Lys	Lys	Ser 175	Leu
Tyr	Thr	Asp	Glu 180	Ser	Ser	Lys	Pro	Gly 185	Lys	Asn	Lys	Arg	Thr 190	Ala	Ile
Thr	Thr	Pro 195	Asn	Phe	Lys	Lys	Leu 200	His	Glu	Ala	His	Phe 205	Lys	Glu	Met
Glu	Ser 210	Ile	Asp	Gln	Tyr	Ile 215	Glu	Arg	Lys	Lys	Lys 220	His	Phe	Glu	Glu
His 225	Asn	Ser	Met	Asn	Glu 230	Leu	Lys	Gln	Gln	Pro 235	Ile	Asn	Lys	Gly	Gly 240
Val	Arg	Thr	Pro	Val 245	Pro	Pro	Arg	Gly	Arg 250	Leu	Ser	Val	Ala	Ser 255	Thr
Pro	Ile	Ser	Gln 260	Arg	Arg	Ser	Gln	Gly 265	Arg	Ser	Cys	Gly	Pro 270	Ala	Ser
Gln	Ser	Thr 275	Leu	Gly	Leu	Lys	Gly 280	Ser	Leu	Lys	Arg	Ser 285	Ala	Ile	Ser
Ala	Ala 290	Lys	Thr	Gly	Val	Arg 295	Phe	Ser	Ala	Ala	Thr 300	Lys	Asp	Asn	Glu
His 305	Lys	Arg	Ser	Leu	Thr 310	Lys	Thr	Pro	Ala	Arg 315		Ser	Ala	His	Val 320
Thr	Val	Ser	Gly	Gly 325	Thr	Xaa	Lys	Gly	Glu 330		Val	Leu	Gly	Thr 335	His
Lys	Leu	Lys	Thr 340		Thr	Gly	Asn	Ser 345		Ala	Val	Ile	Thr 350		Phe
Lys	Leu	Thr 355		Glu	Ala	Thr	Gln 360		Pro	Val	Ser	Asn 365		Lys	Pro
Val	Phe 370	Asp	Leu	Lys	Ala	Ser 375		Ser	Arg	Pro	Leu 380		Tyr	Glu	Pro
His 385	Lys	Gly	Lys	Leu	Lys 390		Trp	Gly	Gln	Ser 395		Glu	Asn	Asn	Ту1 400

Leu Asn Gln His Val Asn Arg Ile Asn Phe Tyr Lys Lys Thr Tyr Lys 405 410 415

Gln Pro His Leu Gln Thr Lys Glu Glu Gln Arg Lys Lys Arg Glu Gln
420 425 430

Glu Arg Lys Glu Lys Lys Ala Lys Val Leu Gly Met Arg Arg Gly Leu 435 440 445

Ile Leu Ala Glu Asp 450

<210> 5595

<211> 64

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5595

Leu Leu Lys Lys Ser Gly Glu Glu Arg Tyr Leu Ser Asn Leu Leu 1 5 10 15

Asn Leu Tyr Lys Thr Leu His Cys Arg Gly Gly Ala Thr Pro Lys Tyr 20 25 30

Phe His Asp Leu His Gly Leu Ile Arg Phe Phe Phe Phe Tyr Thr Ile 35 40 45

Leu Ala Thr Phe Ser Met Glu Lys Arg Gln Phe Thr Gln Phe Pro Xaa 50 55 60

<210> 5596

<211> 307

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (147)

<223> Xaa equals any of the naturally occurring L-amino acids

<220> <221> SITE <222> (300) <223> Xaa equals any of the naturally occurring L-amino acids															
)> 55 Thr		Lys	Met 5	Ser	Met	Leu	Lys	Pro 10	Ser	Gly	Leu	Lys	Ala 15	Pro
Thr	Lys	Ile	Leu 20	Lys	Pro	Gly	Ser	Thr 25	Ala	Leu	Lys	Thr	Pro 30	Thr	Ala
Val	Val	Ala 35	Pro	Val	Glu	Lys	Thr 40	Ile	Ser	Ser	Glu	Lys 45	Ala	Ser	Ser
Thr	Pro 50	Ser	Ser	Glu	Thr	Gln 55	Glu	Glu	Phe	Val	Asp 60	Asp	Phe	Arg	Val
Gly 65	Glu	Arg	Val	Trp	Val 70	Asn	Gly	Asn	Lys	Pro 75	Gly	Phe	Ile	Gln	Phe 80
Leu	Gly	Glu	Thr	Gln 85	Phe	Ala	Pro	Gly	Gln 90	Trp	Ala	Gly	Ile	Val 95	Leu
Asp	Glu	Pro	Ile 100	Gly	Lys	Asn	Asp	Gly 105	Ser	Val	Ala	Gly	Val 110	Arg	Tyr
Phe	Gln	Cys 115	Glu	Pro	Leu	Lys	Gly 120	Ile	Phe	Thr	Arg	Pro 125	Ser	Lys	Leu
Thr	Arg 130	Lys	Val	Gln	Ala	Glu 135	Asp	Glu	Ala	Asn	Gly 140	Leu	Gln	Thr	Thr
Pro 145	Ala	Xaa	Arg	Ala	Thr 150	Ser	Pro	Leu	Суз	Thr 155	Ser	Thr	Ala	Ser	Met 160
Val	Ser	Ser	Ser	Pro 165	Ser	Thr	Pro	Ser	Asn 170	Ile	Pro	Gln	Lys	Pro 175	Ser
Gln	Pro	Ala	Ala 180	Lys	Glu	Pro	Ser	Ala 185	Thr	Pro	Pro	Ile	Ser 190	Asn	Leu
Thr	Lys	Thr 195	Ala	Ser	Glu	Ser	Ile 200	Ser	Asn	Leu	Ser	Glu 205	Ala	Gly	Ser
Ile	Lys 210	Lys	Gly	Glu	Arg	Glu 215	Leu	Lys	Ile	Gly	Asp 220	Arg	Val	Leu	Val
Gly 225	_	Thr	Lys	Ala	Gly 230		Val	Arg	Phe	Leu 235		Glu	Thr	Asp	Phe 240

Ala Lys Gly Glu Trp Cys Gly Val Glu Leu Asp Glu Pro Leu Gly Lys 245 250 255

Asn Asp Gly Ala Val Ala Gly Thr Arg Tyr Phe Gln Cys Gln Pro Lys 260 265 270

Tyr Gly Leu Phe Ala Pro Val His Lys Val Thr Lys Ile Gly Phe Pro 275 280 285

Ser Thr Thr Pro Ala Lys Ala Lys Ala Asn Ala Xaa Gly Glu Leu Trp 290 295 300

Arg Pro Arg 305

<210> 5597

<211> 118

<212> PRT

<213> Homo sapiens

<400> 5597

Asn Gly Gly Gln His Cys Cys Trp Arg Asn Arg Met Pro His Pro 1 5 10 15

Trp Trp Val Leu His Thr Val Ser Gly Gly Gln Val Ser Cys Gln Pro
20 25 30

Pro Pro Arg Asn Ser Pro Pro Ser Glu Ala Thr Lys Thr Ser Arg Val 35 40 45

Ser Gln Ser Ala Ile Leu Arg Lys Val Leu Arg Gly Thr Asp Lys Val 50 55 60

Arg Arg Glu Ser Cys Gly Leu Glu Ala Ala Arg Asn Lys Pro Ser Arg 65 70 75 80

Arg Arg Gly Ile Pro Ala Gly Gly Met Gly Gly Ala Gly Ala Trp Glu 85 90 95

Met Arg Thr Gly Leu Val Met Val Cys Gly Arg Gln Leu Leu Arg Trp 100 105 110

Arg Ala Gly Gly Arg Gly 115

<210> 5598

4935

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<211> 28
<212> PRT
<213> Homo sapiens
<400> 5598
Gln Tyr Phe Leu Lys Ile Ile Thr Tyr Ile Ile Val Thr Lys His Leu
Cys Gln Ile Arg Thr Ser Ser Thr Glu Ala Ala Val
             20
<210> 5599
<211> 67
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (49)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5599
Lys Phe Trp Arg Leu Gly Xaa Leu Arg Ser Arg Ser Gln Gln Val Trp
                  5
Cys Leu Ala Arg Ala His Ser Ser Leu Pro Ser Cys Cys Val Thr Ala
             20
                                  25
Trp Trp Glu Gly Gln Ala Ser Ser His Gly Leu Phe Tyr Ser Gly Pro
Xaa Ser Ile Gly Glu Gly Ser Ala Ile Ile Thr Ser Ser Pro Arg His
                                             60
     50
Leu Gln Gly
 65
<210> 5600
<211> 50
<212> PRT
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<213> Homo sapiens

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<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5600
Xaa Ser Val His Thr Leu Tyr Arg Asn Ser Leu Tyr Ser Ile Pro Val
                                      10
Glu Gly His Phe Asn Pro His Ser Ile Pro Ser Val Leu Arg Thr Ser
                                 25
Ser Lys Ala Ala Cys Ser Ser Ser Ser Val Val Ala Thr Leu Asp Leu
                             40
His Val
     50
<210> 5601
<211> 51
<212> PRT
<213> Homo sapiens
Gly Asp Cys Gly Lys Gly Thr Val Tyr Lys Ala Val Gly Met Tyr Arg
                  5
                                     10
                                                          15
Lys Ala Gln Gly Ile Gly Gln Gly Ala Gly Leu Phe Ile Val Ile Phe
             20
Thr Ser Gly Leu Ile Leu Gly Gly Gly Val Leu Pro Gly Thr Arg
                             40
Pro Tyr Gly
     50
<210> 5602
<211> 143
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (123)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
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<221> SITE <222> (135) <223> Xaa equals any of the naturally occurring L-amino acids <400> 5602 Lys Gln Phe Ala Ser Gly Asn Arg Thr Ala Gly Ala Val Phe Leu Gln Gln Gln Thr Lys His Arg Gly Arg Thr Gln Ala Ser Thr Glu Gln Ala 25 20 Glu Thr Asp Asp Asn Met Asp Thr Lys Ser Ile Leu Glu Glu Leu Leu Leu Lys Arg Ser Gln Leu Leu Glu Met Cys Tyr Asp Val Cys Glu Gly 55 Met Ala Phe Leu Glu Ser His Gln Phe Ile His Arg Asp Leu Ala Ala 70 Arg Asn Cys Leu Val Asp Arg Asp Leu Cys Val Lys Val Ser Asp Phe Gly Met Thr Arg Tyr Val Leu Asp Asp Gln Tyr Val Ser Ser Val Gly 105 100 Thr Lys Phe Pro Val Lys Trp Ser Ala Pro Xaa Val Phe His Tyr Phe 120 Lys Tyr Ser Ser Lys Ser Xaa Arg Met Gly Ile Trp Asp Pro Asp 140 135 130 <210> 5603 <211> 43 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (16) <223> Xaa equals any of the naturally occurring L-amino acids <400> 5603 Asn Phe Val Phe Leu Val Glu Lys Gly Phe Leu His Val Gly Gln Xaa Gly Leu Glu Leu Pro Ile Ser Gly Asp Pro Pro Ala Ser Gln Ser Ala

25

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Gly Ile Thr Gly Val Ser Thr Thr Pro Arg Leu
35 40
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<210> 5604
<211> 83
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (11)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (80)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5604
Val Gly Val Ser Ser Gln Leu Lys Lys Lys Xaa Asn Glu Ile Gly Ser
                  5
                                     10
                                                          15
Arg Asn Glu Lys Gly Glu Arg Glu Arg Lys Lys Met Asp Val Gly
             20
Asn Phe Val Ala Cys Ser Leu Trp Ile Leu Gln Asn Tyr His Cys Gly
                             40
Tyr Cys Leu Thr Trp Leu Leu Leu Ala Met Lys Asn Gln Glu His Phe
```

His Tyr His Phe Leu Thr Ile His Gln Pro Gln Phe Leu Gly Ile Xaa

75

55

70

Leu Lys Phe

65

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<210> 5605
<211> 429
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (28)
<223> Xaa equals any of the naturally occurring L-amino acids
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Val)> 56 Ser		Ala	Thr 5	Asp	Val	Glu	Val	Gly 10	Thr	Asp	Leu	Val	Pro 15	Ser
l Val	Thr	Val	Lys	_	Thr	Leu	Gln	Asn		Val	Xaa	Leu	Gln		Ala
			20					25					30	-	
Lys	Leu	Ser 35	Val	Tyr	Val	Gln	Pro 40	Pro	Leu	Glu	Leu	Thr 45	Cys	Asp	Gln
Phe	Thr 50	Phe	Glu	Phe	Met	Asn 55	Arg	Asn	Pro	Asp	G1y 60	Ile	Pro	Arg	Val
11e 65	Gln	Cys	Lys	Phe	Arg 70	Leu	Pro	Leu	Lys	Leu 75	Ile	Суѕ	Leu	Pro	Gly 80
Gln	Pro	Ser	Lys	Thr 85	Ala	Ser	His	Lys	Ile 90	Thr	Ile	Asp	Thr	Asn 95	Lys
Ser	Pro	Val	Ser 100	Leu	Leu	Ser	Leu	Phe 105	Pro	Gly	Phe	Ala	Ser 110	Gln	Ser
Asp	Asp	Asp 115	Gln	Val	Asn	Val	Met 120	Gly	Phe	His	Phe	Leu 125	Gly	Gly	Ala
Arg	Ile 130	Thr	Val	Leu	Ala	Ser 135	Lys	Thr	Ser	Gln	Arg 140	Tyr	Arg	Ile	Gln
Ser 145	Glu	Gln	Phe	Glu	Asp 150	Leu	Trp	Leu	Ile	Thr 155	Asn	Glu	Leu	Ile	Leu 160
Arg	Leu	Gln	Glu	Туг 165	Phe	Glu	Lys	Gln	Gly 170	Val	Lys	Asp	Phe	Ala 175	Cys
Ser	Phe	Ser	Gly 180	Ser	Ile	Pro	Leu	Gln 185	Glu	Tyr	Phe	Glu	Leu 190	Ile	Asp
His	His	Phe 195	Glu	Leu	Arg	Ile	Asn 200	Gly	Glu	Lys	Leu	Glu 205	Glu	Leu	Leu
Ser	Glu 210	Arg	Ala	Val	Gln	Phe 215	Arg	Ala	Ile	Gln	Arg 220	Arg	Leu	Leu	Ala
Arg 225	Phe	Lys	Asp	Lys	Thr 230	Pro	Ala	Pro	Leu	Gln 235	His	Leu	Asp	Thr	Leu 240
Leu	Asp	Gly	Thr	туr 245		Gln	Val	Ile	Ala 250		Ala	Asp	Ala	Val 255	Glu
Glu	Asn	Gln	Gly 260		Leu	Phe	Gln	Ser 265		Thr	Arg	Leu	Lys 270	Ser	Ala

Thr His Leu Val Ile Leu Leu Ile Ala Leu Trp Gln Lys Leu Ser Ala 275 280 285 Asp Gln Val Ala Ile Leu Glu Ala Ala Phe Leu Pro Leu Gln Glu Asp 295 Thr Gln Glu Leu Gly Trp Glu Glu Thr Val Asp Ala Ala Ile Ser His 310 315 Leu Leu Lys Thr Cys Leu Ser Lys Ser Ser Lys Glu Gln Ala Leu Asn 325 330 Leu Asn Ser Gln Leu Asn Ile Pro Lys Asp Thr Ser Gln Leu Lys Lys 340 345 His Ile Thr Leu Leu Cys Asp Arg Leu Ser Lys Gly Gly Arg Leu Cys Leu Ser Thr Asp Ala Ala Pro Gln Thr Met Val Met Pro Gly Gly 370 375 Cys Thr Thr Ile Pro Glu Ser Asp Leu Glu Glu Arg Ser Val Glu Gln 385 390 395 400 Asp Ser Thr Glu Leu Phe Thr Asn His Arg His Leu Thr Ala Glu Thr 405 410 Pro Arg Pro Glu Val Ser Pro Leu Gln Gly Val Ser Glu 420 425

<210> 5606

<211> 59

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5606

Asn Ile Thr Thr Met Asn Pro Thr Ser His Cys Lys Asp Cys Val Leu

1 5 10 15

Tyr Phe Asp Leu Ser Ser Gly Ile Gly Asp Thr Leu Phe Gly His His
20 25 30

Glu Gly Thr Met Gln Asn Pro Ser Phe Xaa Asn Ser Phe Leu Ser Ser

4941

35 40 45

Ile Glu Asp Pro Lys Asn Gln Thr Phe Arg Val 50 55

<210> 5607

<211> 97

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5607

Lys Pro Gly His Thr Ala Gly Asp Glu Trp Lys Ala Ser Glu Thr Ser 1 5 10 15

Trp Val Phe Thr Ala Ile Pro Arg Arg Ser His Tyr His Leu Ser Cys
20 25 30

Val Ser Cys Glu Ile Ser Ser Ser Ile Arg Phe Ser Arg Ser Thr Asn 35 40 45

Pro Phe Gly Thr Val Cys Glu Gly Ser Lys Leu Arg Ile Ser Tyr Glu 50 55 60

Asn Leu Ile Pro Asp Asp Leu Leu Leu Ser Pro Thr Thr Pro Arg Trp 65 70 75 80

Asp His Leu Val Ala Gly Lys Gln Ala Gln Ala Pro Thr Asp Ser Xaa 85 90 95

Leu

<210> 5608

<211> 52

<212> PRT

<213> Homo sapiens

<400> 5608

Gln Arg Lys Arg Glu Glu Glu Gly Arg Leu Asp Thr Glu Arg Cys Leu 1 5 10 15

Ala Arg Gly Ser Gln Ser Gly Val Gln Pro Leu Gly Gly Pro Thr Pro

4942 20 25 30 Gly Glu Asp His Leu Pro Thr Ser Ser Ile Pro Thr Leu Pro Ala Pro 40 45 His Pro Ser Cys 50 <210> 5609 <211> 49 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (2) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (9) <223> Xaa equals any of the naturally occurring L-amino acids <400> 5609 Ala Xaa Thr Asn Phe Thr Gln Glu Xaa Ala Met Thr Met Ile Thr Pro 10 Ser Ser Asn Thr Thr His Tyr Arg Glu Ser Trp Tyr Ala Cys Arg Tyr 20 30 Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser Gly Arg Gln Arg Leu 40 Gln <210> 5610 <211> 42 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<221> SITE
<222> (22)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (31)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5610
Leu Ala Lys Glu Val Lys Pro Arg Gly Phe Pro Gly Gly Lys Ile Phe
Pro Pro Gly Gly Xaa Xaa Gly Asn Pro Pro Thr Gly Pro Val Xaa Pro
             20
                                 25
Gly Val Pro Lys Phe Lys Thr Pro Lys Phe
         35
<210> 5611
<211> 85
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (46)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (55)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (63)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (80)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5611
His Ala Gln Gly Glu Ala Arg Val Gln Pro Leu Arg Gly Leu Leu Gln
Glu Arg Gly Gly Gln Gln Pro Trp Gly Arg Gly Arg Pro Arg Gly Gly
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4944

20 25 30 Gly His Gln Gly Thr Ala Arg Trp Ala Ser Ser Cys Pro Xaa Ser Trp 40 Ala Arg Ser Lys Ala Arg Xaa Asp Leu Leu Ala Trp Gln Pro Xaa Pro 55 Gly Ala Arg Ile Ala Ala Pro Val Ile Gln Asn Pro Ala Glu Gln Xaa 70 75 Pro Cys Ser Cys Ala <210> 5612 <211> 91 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (51) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (56) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (91) <223> Xaa equals any of the naturally occurring L-amino acids <400> 5612 Thr Lys Phe His Phe Val Cys Val Cys Val His Val Cys Val Ser Thr 10 Gly Gly Leu Cys Phe Ile Leu Cys Phe Phe Asp Ser Cys Ala Thr Ser 20 Leu Pro His Ser Pro Lys Lys Asp Lys Thr Lys Leu Ser Thr Asn Pro 35 40 His Ile Xaa Val Cys Leu Ser Xaa Thr Leu Thr Thr Val Pro Ile Ile 55 Met Ser Ser Tyr Ile Pro Cys Lys Ile Trp Val Val Ser Tyr Thr Ala

70

75

4945

Gly Leu His Leu Thr Leu Glu Gly Lys Lys Xaa 85 90

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<210> 5613
<211> 79
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (15)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
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<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (50)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
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<222> (56)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (61)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5613
Asn Ser Glu Lys Glu Gln Trp Leu Cys Ser Phe Leu Ala Asn Xaa Leu
                                      10
Gln Lys Glu Ser Thr Trp Thr Ser Val Pro Gly Val Glu Ile Leu Arg
                                  25
Gly Xaa Glu Leu Val Gly Glu His Phe Pro Thr Trp Leu Arg Gln Gly
                                                   45
         35
Phe Xaa Trp Gly Arg Gly Arg Xaa Tyr Ser Gly Gly Xaa Ser Pro Pro
                                               60
     50
                          55
Arg Arg His His Thr Phe Pro Pro Gly Val Pro Gln Gly Pro Arg
                      70
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<210> 5614
<211> 219
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (215)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5614
Leu Ser Phe Phe Ser Leu Thr Ala Ser Tyr Ser Pro Ile Gln Pro His
                  5
Ser Leu Ile Lys His Gln Gln Ile Pro Leu His Ser Pro Pro Ser Lys
             20
                                  25
Val Ser His His Gln Leu Ile Leu Gln Gln Gln Gln Gln Ile Gln
                             40
Pro Ile Thr Leu Gln Asn Ser Thr Gln Asp Pro Pro Pro Ser Gln His
                         55
Cys Ile Pro Leu Gln Asn His Gly Leu Pro Pro Ala Pro Ser Asn Ala
 65
                     70
Gln Ser Gln His Cys Ser Pro Ile Gln Ser His Pro Ser Pro Leu Thr
                                     90
Val Ser Pro Asn Gln Ser Gln Ser Ala Gln Gln Ser Val Val Ser
            100
                                105
Pro Pro Pro Pro His Ser Pro Ser Gln Ser Pro Thr Ile Ile His
        115
                            120
                                                125
Pro Gln Ala Leu Ile Gln Pro His Pro Leu Val Ser Ser Ala Leu Gln
    130
                        135
Pro Gly Pro Asn Leu Gln Gln Ser Thr Ala Asn Gln Val Gln Ala Thr
                    150
                                        155
Ala Gln Leu Asn Leu Pro Ser His Leu Pro Leu Pro Ala Ser Pro Val
                165
                                    170
Val His Ile Gly Pro Val Gln Gln Ser Ala Leu Val Ser Pro Gly Gln
            180
                                185
                                                    190
Gln Ile Val Ser Pro Ser His Gln Gln Tyr Ser Ser Leu Gln Ser Ser
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PCT/US00/26524 WO 01/22920

4947

195 200 205 Pro Ile Pro Ile Ala Ser Xaa Pro Gln Met Ser 215 <210> 5615 <211> 26 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (6) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (26) <223> Xaa equals any of the naturally occurring L-amino acids <400> 5615 Pro Ser Arg Leu Leu Xaa Pro Leu Ile Arg Val Ser Ile Lys Leu Lys 10 Leu Arg Pro Asp Arg Arg Thr Ala Ser Xaa 20 <210> 5616 <211> 99 <212> PRT <213> Homo sapiens <400> 5616 Tyr Arg Ala Thr Phe Leu Asn Val Ser Asp Val Val Arg Pro Ser His 10 Thr Ser Ala Val Ser Phe Ser Ala Ser Leu Gly Leu Ala Phe Cys Ser 25 Ser Val Pro His Thr Met Ile Pro Leu Gly Gln Ala Phe Ala Cys Ala 35 40 45 Val Ser Pro Val Lys Leu Thr Ser Leu Pro Leu Trp Ala Gln Ile Pro 50

Ala Gln Val Ala Gly Val Arg Ser Ser Arg Gly Glu Ser Ser Trp

75

70

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Arg Ala Gly Ser Ile Val Arg Arg Lys Gly His Gly Gln Asn Pro Gly
                 85
                                     90
Glu His Arg
<210> 5617
<211> 67
<212> PRT
<213> Homo sapiens
<400> 5617
Gln Val Leu Cys Lys Cys Leu Pro Ser Leu Gln Val Pro Ala Thr Cys
                  5
                                     10
Pro Lys Lys Arg His Ile Lys Lys Leu Ser Asp Thr Ser Pro Asp Phe
                                 25
Ile Tyr Phe Ile Tyr Leu Thr Thr Tyr Met Leu Val Cys Arg Asn Tyr
                            40
Ile Leu Asp Leu Phe Pro Tyr Leu Leu Arg Thr Val Leu Leu Lys
     50
                         55
Ala Ala Thr
 65
<210> 5618
<211> 81
<212> PRT
<213> Homo sapiens
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<223> Xaa equals any of the naturally occurring L-amino acids
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Ser Cys Gln Val Ser Pro Ala Gly Arg Lys His Cys Xaa Pro Ser Ala

10

15

<400> 5618

4949

Gly Ser Ser Leu Glu Ser Gln Xaa Gly Lys Arg Ser Trp Pro Leu Pro 20 25 30

Pro Ala Asp Arg Ser Ser Ala Ser Met Arg Phe Val Val Thr Phe
35 40 45

Ser Val Thr Ile Lys Gly Asp Phe Phe Leu Asn Ile Lys Leu Phe Phe 50 55 60

Glu Gln Gly Met Asn Met Ser Phe Cys Asn Val Thr Glu Val Glu Phe 65 70 75 80

Lys

<210> 5619

<211> 48

<212> PRT

<213> Homo sapiens

<400> 5619

Ala Leu Leu Val His Glu Asp Lys Leu Pro Glu Gly Phe Gly Cys Met
1 5 10 15

Leu His Ser Val Thr Ser Ser Tyr Leu Lys Ile Ser Val Leu Tyr Leu 20 25 30

Ala Leu Tyr Leu Lys Val Asn Thr Asn Leu Thr Tyr Leu Lys Ile Phe $35 \hspace{1cm} 40 \hspace{1cm} 45$

<210> 5620

<211> 107

<212> PRT

<213> Homo sapiens

<400> 5620

Cys Leu Ser Pro Gly Thr Trp Ala Asp Leu Val Pro Gly Glu Leu Ser
1 5 10 15

Pro Leu Leu Ala Lys Glu Leu Leu Ser Ser Gln Thr Leu Leu Leu Arg 20 25 30

Cys Pro Pro Cys Met Val Phe Glu Val Phe Glu Val Phe Leu Glu Phe
35 40 45

Thr Cys Trp Arg Leu Gln Leu Thr Glu Arg Pro Gly Leu Asp Cys Ala 50 55 60

Ser Cys Ser Ser Arg Thr Lys Asp Ile Ser Trp Lys Cys Met Arg Pro 65 70 75 80

Arg Ile Cys Asp Arg Asn Gly Ser Ser His Val Arg Tyr Ala Pro Trp
85 90 95

Lys Asp Leu Glu Ile Arg Asn Leu Ser Glu His
100 105

<210> 5621

<211> 52

<212> PRT

<213> Homo sapiens

<400> 5621

Phe Tyr Val Arg Tyr Tyr Arg Tyr Phe Glu Met Val Thr Asp Ser Phe 1 5 10 15

Glu Ile Leu Ser Ser Leu Glu Cys Asp Ala Phe Asn Ile Ala Ser Gly
20 25 30

Phe Arg Trp Arg Asn Thr Met Leu Leu Ser Leu Lys Ile Asn Ser Ile 35 40 45

Ser Pro Ile Val

<210> 5622

<211> 44

<212> PRT

<213> Homo sapiens

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<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5622

Ser Ser Cys Met Asn Gln Gly Ser His Ser Gly Phe Gln Gly Leu Asp 1 5 10 15

Phe Leu Val Cys Lys Arg Asp Phe Thr Met His Leu Ala Thr Ser Pro 20 25 30

Ser Ser Leu Gly Asn Xaa Lys Thr Lys Cys Arg Gln 35 40

<210> 5623

<211> 101

<212> PRT

<213> Homo sapiens

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<222> (62)

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<220>

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<400> 5623

Gln Gly Asn Pro Lys Leu Gln Lys Leu Lys Gly Glu Glu Glu Pro
1 5 10 15

Val Leu Met Ala Glu Ala Val Lys Lys Val Asn Arg Gly Asn Gly Lys
20 25 30

Thr Ser Ser Arg Ile Leu Leu Leu Thr Lys Gly His Val Ile Leu Thr 35 40 45

Asp Thr Lys Lys Ser Gln Ala Lys Ile Val Ile Gly Leu Xaa Asn Val
50 60

Ala Gly Val Ser Val Thr Ser Leu Lys Asp Gly Leu Phe Ser Leu His
65 70 75 80

Leu Ser Xaa Met Ser Ser Val Gly Ser Lys Gly Asp Phe Leu Leu Val 85 90 95

Lys Arg Ala Cys Asp 100

<210> 5624

<211> 73

<212> PRT

<213> Homo sapiens

<400> 5624

Asn Arg Ser Val Gln Ser Tyr Phe Phe Leu Thr Leu Asn Phe Pro Ser 1 5 10 15

Arg Glu Tyr Thr Ile Trp Leu Arg Gly Arg Gly Ser Pro Glu Glu Arg 20 25 30

Gly Phe Ala Leu Arg Gly Arg Ala Ser Leu Asp Phe Ala Ala Ser Asn 35 40 45

Phe Ser Arg Gly Val Glu Gly Gly Ala Leu Gly Gly Pro His Ser Leu 50 55 60

Ser Gly Val Pro Ala Arg Val Ser Phe 65 70

<210> 5625

<211> 146

<212> PRT

<213> Homo sapiens

<220>

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<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5625

Ser Cys Glu Asp Gly Lys Val Glu Gln Glu Ala Leu Ser Ala Phe Leu

1 5 10 15

His Asp Val Asn Glu Glu Ile Gln Cys Gln Ile Glu Val Asp Gly Thr
20 25 30

Pro Arg Gly Arg Gly Ala Gly Val Gly Ser Asp Val Pro Ser Pro Pro 35 40 45

Ser Pro Gly Pro Thr Asp Cys Gly His Glu Xaa Ala Gly Trp Cys Tyr 50 55 60

Asp Ser Arg Leu Gln His Arg Ala Leu Pro Ser Ser Pro Gln Trp Asp 65 70 75 80

Ile Lys Thr Thr Leu Gly Pro Phe Val Gln Gly Thr Thr Ser Ser Ile 85 90 95

Asp Gly Glu Asn Lys Leu Ser Arg Ala Thr Thr Gly Trp Arg Glu Ala 100 105 110

Gly Thr Ile Val Phe Leu Arg Ser Val Thr Ala Asp Pro Thr Asp His 115 120 125

4953

Ala Cys Trp Tyr Thr Leu Val Pro Asp Pro Ala Cys Arg Thr Ser Ala 130 135 140

Val Cys 145

<210> 5626

<211> 59

<212> PRT

<213> Homo sapiens

<400> 5626

Gly Gly Asn Ser Gly Asn Gly Pro Ala Lys Ile Tyr Gly Ala Ala Ala 1 5 10 15

Ala Asp Asp Thr Ala Asn Ile Thr Gln Gln Pro Asp Ala Asn Val Asp
20 25 30

Ile Asp Trp Gln Gly Gln Ala Phe Arg Gly Asn Asn Gln Gln Val Leu
35 40 45

Leu Glu Gln Leu Glu Asn Gln Gly Ile Arg Ile 50 55

<210> 5627

<211> 48

<212> PRT

<213> Homo sapiens

<400> 5627

Lys Ala Lys Gln Cys Lys Asn Pro Leu Gln Lys Ala Arg Leu Pro Pro 1 5 10 15

Ser Thr Glu Pro Gln Leu Leu Cys Ser Pro Leu Gln Arg Gln Trp Leu 20 25 30

Leu Leu Val Thr Cys Ile Ser Cys Trp Ile Cys Val Phe Tyr Gln Gly 35 40 45

<210> 5628

<211> 39

<212> PRT

<213> Homo sapiens

<400> 5628

Asp Ser Val Leu Ser Leu Ile Ser His Asn Gln Leu Phe Leu Leu Val 1 5 10 15

Pro Asn Ser Cys Ser Pro Gly Asp Pro Leu Val Leu Glu Arg Pro Pro 20 25 30

Pro Arg Trp Ser Ser Ser Phe 35

<210> 5629

<211> 26

<212> PRT

<213> Homo sapiens

<400> 5629

Trp His Met Pro Val Ile Pro Ala Leu Trp Glu Ser Glu Ala Gly Gly
1 5 10 15

Ser Leu Glu Ser Arg Ser Leu Arg Leu Pro 20 25

<210> 5630

<211> 87

<212> PRT

<213> Homo sapiens

<400> 5630

Ile Ala Asn Ser Lys Gly Cys Thr Ser Val Ile Ile Asn Lys Asn Leu

1 5 10 15

Ala Asn Ser Cys Gly Thr Gly Tyr Ser His Leu Ile Cys Leu Val Pro 20 25 30

Lys Ile Ala Cys Pro Phe Pro Asn Ser Ser Gln Leu Asp Cys Ala Thr 35 40 45

Lys Thr Asp Lys Tyr Leu Leu Gly Asn His Asn His Gly Asp Leu Leu 50 55 60

Pro Gln Leu Gly Pro Trp Tyr Ile Phe Val Cys Ile Leu Trp Cys Tyr 65 70 75 80

Met Gln Ile Asn Thr Phe Asn

4955

85

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<210> 5631
<211> 93
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<213> Homo sapiens
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<222> (87)
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<400> 5631
Gln Glu Thr Ser Lys Met Glu Thr Leu Ser Phe Pro Arg Tyr Asn Val
                  5
                                     10
                                                          15
Ala Glu Ile Val Ile His Ile Arg Asn Lys Ile Leu Thr Gly Ala Asp
Gly Lys Asn Leu Thr Lys Asn Asp Leu Tyr Pro Asn Pro Lys Pro Glu
                             40
Val Leu His Met Ile Tyr Met Arg Ala Leu Gln Ile Val Tyr Gly Ile
                         55
Arg Leu Glu His Phe Tyr Met Met Pro Val Asn Ser Glu Val Met Tyr
                                                              80
 65
                     70
                                         75
Pro His Leu Met Gly Arg Xaa Leu Thr Ile Gln Ala Ile
                                     90
                 85
<210> 5632
<211> 114
<212> PRT
<213> Homo sapiens
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<223> Xaa equals any of the naturally occurring L-amino acids

<221> SITE <222> (98)

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<222> (104)
<223> Xaa equals any of the naturally occurring L-amino acids
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<222> (111)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5632
Thr Val Leu Gly His Val Leu Tyr Leu Cys Leu Ala Pro His Leu Phe
                                      10
Leu Asp Pro Leu Val Ile Cys Met Thr Thr Phe Lys Asn Phe Asn Phe
Val Cys Cys Leu Arg His Cys Cys Glu His Pro His Gly Val Arg His
                             40
                                                  45
Pro Pro Thr Leu Ala Pro Ala Ser Thr Leu Leu His Leu Thr Ser Val
     50
                         55
Tyr Pro Ala Ala Leu Leu Leu Leu Leu Val Cys Val Asn Glu Asp Asn
                                          75
Leu Val Ala Val Thr Tyr Lys Cys Phe Ile Trp His His Pro Ser Val
                 85
                                      90
Xaa Xaa Xaa Trp Trp Xaa Glu Xaa Thr Leu Ala Pro Thr Pro Xaa His
            100
                                105
                                                     110
Thr Ser
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<210> 5633

<211> 210

<212> PRT

<213> Homo sapiens

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<222> (187)
<223> Xaa equals any of the naturally occurring L-amino acids
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<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5633
Lys Glu Asn Lys Val Val Leu Ile Val Gly Glu Thr Gly Ser Gly Lys
                  5
Thr Thr Gln Ile Pro Gln Phe Leu Leu Asp Asp Cys Phe Lys Asn Gly
             20
                                  25
Ile Pro Cys Arg Ile Phe Cys Thr Gln Pro Arg Arg Leu Ala Ala Ile
                              40
Ala Val Ala Glu Arg Val Ala Ala Glu Arg Arg Glu Arg Ile Gly Gln
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4958

50 55 60 Thr Ile Gly Tyr Gln Ile Arg Leu Glu Ser Arg Val Ser Pro Lys Thr 70 75 Leu Leu Thr Phe Cys Thr Asn Gly Val Leu Leu Arg Thr Leu Met Ala Gly Asp Ser Thr Leu Ser Thr Val Thr His Val Ile Val Asp Glu Val 100 105 His Glu Arg Asp Arg Phe Ser Asp Phe Leu Leu Thr Lys Leu Arg Asp 120 Leu Leu Gln Lys His Pro Thr Leu Lys Leu Ile Leu Ser Ser Ala Ala 135 Xaa Asp Val Asn Leu Phe Ile Arg Tyr Phe Gly Ser Cys Pro Xaa Ile 145 155 160 Tyr Ile Gln Gly Xaa Pro Phe Glu Val Lys Glu Met Phe Leu Glu Asp 165 170 Ile Leu Xaa Thr Thr Xaa Xaa Thr Asn Lys Xaa Met Leu Xaa Tyr Lys 185 Lys Glu Lys Gln Gln Asp Glu Lys Thr Leu Ser Lys Lys Lys Lys 195 200 Lys Lys 210 <210> 5634 <211> 63 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (1) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (7) <223> Xaa equals any of the naturally occurring L-amino acids <220>

<221> SITE

4959

<222> (8)
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-2215 GT

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5634

Xaa Val Arg Tyr Ile Ala Xaa Xaa Ser Ala Ala Xaa Arg Lys Arg Xaa 1 5 10 15

Val Cys Ser Glu Trp Lys Phe Ala Ala Cys Val Val Asp Arg Leu Cys 20 25 30

Leu Met Ala Phe Ser Val Phe Thr Ile Ile Cys Thr Ile Gly Ile Leu 35 40 45

Met Ser Ala Pro Asn Phe Val Glu Ala Val Ser Lys Asp Phe Ala 50 55 60

<210> 5635

<211> 88

<212> PRT

<213> Homo sapiens

<400> 5635

Pro Ser Thr Leu Asp Cys Ser Leu Thr Glu Cys Leu Ser Leu Ser Ile
1 5 10 15

Leu Cys Pro Phe Tyr Ser Phe Lys Lys Thr Val Ala Val Thr Lys Glu 20 25 30

Leu Phe Leu Ile Pro Arg Leu Cys Gln Thr Lys Val Ser Ser Leu Arg 35 40 45

Leu Leu Asp Phe Asp Ile Lys Tyr Val Phe Ser Ser Asn Phe Ile 50 55 60

Tyr Val Tyr Ser Ser Ser Asp Pro Glu Ile Tyr Phe Leu Leu Ile Ile 65 70 75 80

Leu Thr Trp Ile Pro Gln Ala Ile

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<210> 5636
<211> 131
<212> PRT
<213> Homo sapiens
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<400> 5636
Pro Gly Xaa Pro Gly Arg Pro Thr Arg Pro Ala Arg Cys Gln Gln Pro
                 5
                                     10
Gly Ala Arg Ser Gln Glu Gln Ser Ala Ser Met Asn Leu Gly Val Ser
             20
                                                     30
Met Leu Arg Ile Leu Phe Leu Leu Asp Val Gly Gly Ala Gln Val Leu
                             40
Ala Thr Gly Lys Thr Pro Gly Ala Glu Ile Asp Phe Lys Tyr Ala Leu
                         55
Ile Gly Thr Ala Val Gly Val Ala Ile Ser Ala Gly Phe Leu Ala Leu
 65
                     70
Lys Ile Cys Met Ile Arg Arg His Leu Phe Asp Asp Ser Ser Asp
                                     90
Leu Lys Ser Thr Pro Gly Gly Leu Ser Asp Thr Ile Pro Leu Lys Lys
                                105
Arg Ala Pro Arg Arg Asn His Asn Phe Ser Lys Arg Asp Ala Gln Val
                            120
                                                125
Ile Glu Leu
    130
<210> 5637
<211> 166
<212> PRT
<213> Homo sapiens
<400> 5637
Pro Thr Arg Pro His Ser Ala Arg Leu Thr Met Cys His Ser Arg Ser
```

4961

Cys His Pro Thr Met Thr Ile Leu Gln Ala Pro Thr Pro Ala Pro Ser 20 Thr Ile Pro Gly Pro Arg Arg Gly Ser Gly Pro Glu Ile Phe Thr Phe Asp Pro Leu Pro Glu Pro Ala Ala Ala Pro Ala Gly Arg Pro Ser Ala Ser Arg Gly His Arg Lys Arg Ser Arg Arg Val Leu Tyr Pro Arg Val 70 Val Arg Arg Gln Leu Pro Val Glu Glu Pro Asn Pro Ala Lys Arg Leu Leu Phe Leu Leu Thr Ile Val Phe Cys Gln Ile Leu Met Ala Glu 100 105 Glu Gly Val Pro Ala Pro Leu Pro Pro Glu Asp Ala Pro Asn Ala Ala 120 Ser Leu Ala Pro Thr Pro Val Ser Pro Val Leu Glu Pro Phe Asn Leu 140 130 135 Thr Ser Glu Pro Ser Asp Tyr Ala Leu Asp Leu Ser Thr Phe Leu Gln 145 155 150 Gln His Pro Ala Ala Phe 165

<210> 5638 <211> 169 <212> PRT <213> Homo sapiens

<400> 5638

Gly Pro Ser Trp Arg Ser Asn Pro Arg Gly Arg Ser Ser Ser Thr Trp

1 5 10 15

Ser Ser Ser Pro Pro Arg Ser Arg Ser Arg Ser Arg Ser Ser Ser Ser 20 25 30

Pro Asn Pro Ser Leu Ser Leu Ser Arg Asn Pro Ser Pro Asn His Asn 35 40 45

Pro Ser Leu Ser Pro Asn Pro Ser Leu Ser Pro Ser Ser Ser Thr Arg
50 55 60

Ile Arg Ile His Ile His Thr Leu Ile Leu Thr Arg Thr His 65 70 75 80

Thr Leu Thr Arg Thr Arg Ile Arg Thr Lys Tyr Arg Thr His Thr His 85 90 95

Ser Arg Thr Arg Ser Arg Thr Gly Thr Gly Phe Ser Ala Ala Pro Pro 100 105 110

Thr Leu Pro Glu Arg Gly Ser Ser Arg Ala Arg Gln Gly Phe Glu Asp 115 120 125

Leu Arg Lys Trp Asp Glu His Ile Ser Ile Val Phe Thr Trp Ile Lys 130 135 140

Ser Lys Thr Val Ser Pro Pro Arg Thr Arg Ser Ser Ser Leu Asp Ile 145 150 155 160

Thr Leu Leu Lys Thr Cys Asp Ser Ser 165

<210> 5639

<211> 62

<212> PRT

<213> Homo sapiens

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<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5639

Lys Thr Phe Ser Ile Arg Lys Arg Gly Lys Phe Xaa Pro Ser Lys Phe 1 5 10 15

Asp Tyr Ser Ser Lys Leu Ser Leu Leu Met Gln Ser Ser Phe Val Thr 20 25 30

Leu Thr Leu Gly His Cys Tyr Gln Thr Ser Trp Glu Ile Ser Ser Ser 35 40 45

Arg Arg Leu Asn Thr Cys Arg Lys Gln Met Phe Phe Gly Pro 50 55 60

<210> 5640

<211> 337

<212> PRT

<213> Homo sapiens													
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<400> 5 Ala Pro 1		Cys Gly 5	Ala	Xaa	Ala	Trp	Lys 10	Phe	Leu	Leu	Gly	Tyr 15	Leu
Ser Trp	Glu G	Sly Thr 20	Ala	Glu	Glu	His 25	Lys	Ala	His	Ile	Arg 30	Lys	Lys
Thr Asp	Glu I	Tyr Phe	Arg	Met	Lys 40	Leu	Gln	Trp	Lys	Ser 45	Val	Ser	Pro
Glu Gln 50	Glu A	Arg Arg	Asn	Ser 55	Leu	Leu	His	Gly	Tyr 60	Arg	Ser	Leu	Ile
Glu Arg 65	Asp V	/al Ser	Arg 70	Thr	Asp	Arg	Thr	Asn 75	Lys	Phe	Tyr	Glu	Gly 80
Pro Glu	Asn F	Pro Gly 85	Leu	Gly	Leu	Leu	Asn 90	Asp	Ile	Leu	Leu	Thr 95	Tyr
Cys Met		His Phe 100	Asp	Leu	Gly	Tyr 105	Val	Gln	Gly	Met	Ser 110	Asp	Leu
Leu Ser	Pro 1	Ile Leu	Tyr	Val	Ile 120	Gln	Asn	Glu	Val	Asp 125	Ala	Phe	Trp
Cys Phe 130		Gly Phe	Met	Glu 135	Leu	Val	Gln	Gly	Asn 140	Phe	Glu	Glu	Ser
Gln Glu 145	Thr N	Met Lys	Arg 150	Gln	Leu	Ġly	Arg	Leu 155	Leu	Leu	Leu	Leu	Arg 160
Val Leu	Asp I	Pro Leu 165		Cys	Asp	Phe	Leu 170	Ásp	Ser	Gln	Asp	Ser 175	Gly
Ser Leu		Phe Cys 180	Phe	Arg	Trp	Leu 185	Leu	Ile	Trp	Phe	Lys 190	Arg	Glu
Phe Pro	Phe 1	Pro Asp	Val	Leu	Arg 200	Leu	Trp	Glu	Val	Leu 205	Trp	Thr	Gly
Leu Pro	_	Pro Asr	Leu	His 215		Leu	Val	Ala	Cys 220	Ala	Ile	Leu	Asp
Met Glu	Arg i	Asp Thr	Leu	Met	Leu	Ser	Gly	Phe	Gly	Ser	Asn	Glu	Ile

225 230 235 240

Leu Lys His Ile Asn Glu Leu Thr Met Lys Leu Ser Val Glu Asp Val 245 250 255

Leu Thr Arg Ala Glu Ala Leu His Arg Gln Leu Thr Ala Cys Pro Glu 260 265 270

Leu Pro His Asn Val Gln Glu Ile Leu Gly Leu Ala Pro Pro Ala Glu 275 280 285

Pro His Ser Pro Ser Pro Thr Ala Ser Pro Leu Pro Leu Ser Pro Thr 290 295 300

Arg Ala Pro Pro Thr Pro Pro Pro Ser Thr Asp Thr Ala Pro Gln Pro 305 310 315

Asp Ser Ser Leu Glu Ile Leu Pro Glu Glu Glu Asp Glu Gly Ala Asp 325 330 335

Ser

<210> 5641

<211> 54

<212> PRT

<213> Homo sapiens

<400> 5641

Met Gln Leu Leu Leu Thr Cys Leu Leu Gln Leu Ile Met Val Thr 1 5 10 15

Asn Lys Ala Ile Ala Ser Gln Ile Ser Gln Ile Lys His Phe His 20 25 30

Cys Ile Leu Val Val Cys Pro Asn Ser Ser Met Tyr Leu Ile Met 35 40 45

Ser Gly Ser Ile Leu His 50

<210> 5642

<211> 65

<212> PRT

<213> Homo sapiens

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Cys Leu Trp Leu Phe Lys Ser Gln Ser Leu Val Asn His Ile Thr Ile
                                     10
                  5
Arg Pro Trp Phe Ser Ile Gly Gly Asp Phe Pro Arg Gly Thr Phe Gly
             20
His Val Leu Glu Ala Phe Trp Leu Ser His Trp Xaa Pro Gly Val Xaa
                             40
Leu Pro Xaa Thr Lys Lys Lys Lys Lys Lys Lys Arg Gly Ala Phe
Leu
 65
<210> 5643
<211> 83
<212> PRT
<213> Homo sapiens
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<400> 5643
Thr Asn Phe Phe Gln Leu Val Lys His His Thr Ser Ser Ala Lys Gly
                                                          15
                  5
Ile Leu Leu Ala Glu Pro Ser Trp Met Ile Ser Val Thr His Ala Xaa
             20
                                  25
Thr Cys Ser Leu Glu Gly Ser Gly Glu Trp Ile His Ala Ile Cys Leu
```

Glu Asp Thr Arg Met Ser Gln Pro Pro Asp Leu Val Ile Tyr Lys Leu 50 60

Leu Arg Ile Thr Leu Val Tyr Phe Trp Ser Glu Asn Gly Lys Ala Gln 65 70 75 80

Ile Met Lys

<210> 5644

<211> 407

<212> PRT

<213> Homo sapiens

<400> 5644

Ala Ala Cys Gln Pro Arg Cys Cys Cys Ser Ser Cys Cys Gly Thr Ala 1 5 10 15

Asp Arg Ala Ala Pro Leu Ser Pro Leu Gln Ala Pro Ile Trp Ala 20 25 30

Pro Ala Thr Ser Met Asp Ala Arg Arg Val Pro Gln Lys Asp Leu Arg 35 40 45

Val Lys Lys Asn Leu Lys Lys Phe Arg Tyr Val Lys Leu Ile Ser Met 50 55 60

Glu Thr Ser Ser Ser Ser Asp Asp Ser Cys Asp Ser Phe Ala Ser Asp 65 70 75 80

Asn Phe Ala Asn Thr Arg Leu Gln Ser Val Arg Glu Gly Cys Arg Thr 85 90 95

Arg Ser Gln Cys Arg His Ser Gly Pro Leu Arg Val Ala Met Lys Phe 100 105 110

Pro Ala Arg Ser Thr Arg Gly Ala Thr Asn Lys Lys Ala Glu Ser Arg 115 120 125

Gln Pro Ser Glu Asn Ser Val Thr Asp Ser Asn Ser Asp Ser Glu Asp 130 135 140

Glu Ser Gly Met Asn Phe Leu Glu Lys Arg Ala Leu Asn Ile Lys Gln 145 150 155 160

Asn Lys Ala Met Leu Ala Lys Leu Met Ser Glu Leu Glu Ser Phe Pro 165 170 175

4967

Gly Ser Phe Arg Gly Arg His Pro Leu Pro Gly Ser Asp Ser Gln Ser 180 185 190

Arg Arg Pro Arg Arg Thr Phe Pro Gly Val Ala Ser Arg Arg Asn 195 200 205

Pro Glu Arg Arg Ala Arg Pro Leu Thr Arg Ser Arg Ser Arg Ile Leu 210 215 220

Gly Ser Leu Asp Ala Leu Pro Met Glu Glu Glu Glu Glu Glu Asp Lys 225 230 235 240

Tyr Met Leu Val Arg Lys Arg Lys Thr Val Asp Gly Tyr Met Asn Glu 245 250 255

Asp Asp Leu Pro Arg Ser Arg Arg Ser Arg Ser Ser Val Thr Leu Pro 260 265 270

His Ile Ile Arg Pro Val Glu Glu Ile Thr Glu Glu Glu Leu Glu Asn 275 280 285

Val Cys Ser Asn Ser Arg Glu Lys Ile Tyr Asn Arg Ser Leu Gly Ser 290 295 300

Thr Cys His Gln Cys Arg Gln Lys Thr Ile Asp Thr Lys Thr Asn Cys 305 310 315 320

Arg Asn Pro Asp Cys Trp Gly Val Arg Gly Gln Phe Cys Gly Pro Cys 325 330 335

Leu Arg Asn Arg Tyr Gly Glu Glu Val Arg Asp Ala Leu Leu Asp Pro 340 345 350

Asn Trp His Cys Pro Pro Cys Arg Gly Ile Cys Asn Cys Ser Phe Cys 355 360 365

Arg Gln Arg Asp Gly Arg Cys Ala Thr Gly Val Leu Val Tyr Leu Ala 370 380

Lys Tyr His Gly Phe Gly Asn Val His Ala Tyr Leu Lys Ser Leu Lys 385 390 395 400

Gln Glu Phe Glu Met Gln Ala 405

<210> 5645

<211> 44

<212> PRT

<213> Homo sapiens

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Arg Glu Ala Ser Gly Ser Leu Trp Glu Gln Ser Tyr Lys Leu Ile Glu
                                    10
Ile His Thr Leu Pro Lys Gln Leu Gly Pro Thr Thr Val Pro His Val
             20
                                 25
Ser Met Gln Asn Tyr Ile Leu Pro Arg Ile Asn Ser
         35
                             40
<210> 5646
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<400> 5646
Lys Met Xaa Leu Thr Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser Thr
                                    10
Ala Val Xaa Ala Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn
                                25
Ser Ala Pro Leu Cys Met Tyr Ser Ser Leu Leu Pro Ser Ser Gln Leu
        35
                            40
                                                45
Ser Val Arg Tyr Val Phe Leu Ser
     50
                        55
<210> 5647
<211> 35
<212> PRT
<213> Homo sapiens
Ser Val Cys Val His Thr Phe Tyr Phe Ser Val Ser Trp Val Tyr Val
                5 . 10
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4969

Trp Leu Lys Thr Ile Leu Glu Ser Lys Ser Ile Leu Ile Tyr Lys Lys
20 25 30

Thr Phe Trp 35

<210> 5648

<211> 106

<212> PRT

<213> Homo sapiens

<400> 5648

Gln Cys Pro Met Gly Pro Leu Leu Leu Pro Ala Pro Ser Leu Leu Leu 1 5 10 15

Leu Met His Ser Pro Leu Pro Ala Ala Pro Gly Phe Pro Ala Phe Leu 20 25 30

Leu Thr Pro Ser Asn Ser Leu Gly Thr Pro Ala Ala Thr Thr Leu Trp
35 40 45

Val Gly His Trp Asp Pro Leu Ala Gln Ser Trp Leu Leu Thr Pro
50 55 60

Ser Leu Asp Ala Cys Pro Gly Thr Pro Ser Pro Leu Pro Leu Pro Cys 65 70 75 80

Ser Phe Asn Arg Val Asn His Val Tyr Cys Thr Gly Ala Val Val Ile 85 90 95

Ala Glu Thr Ala Gly Trp Arg Arg Ser Arg
100 105

<210> 5649

<211> 85

<212> PRT

<213> Homo sapiens

<400> 5649

Arg Asn Pro Lys Asn Gly Asn Asn Pro Ser His Gly Cys His Thr Leu

1 5 10 15

Leu Thr Cys Ser Ile Pro Thr Gln Glu Leu Pro Ala Tyr Gly Ala Ser 20 25 30

His Trp Ser Thr Ser Tyr Pro Gln His Leu Ser Cys His Cys Gln Gly

4970

35 40 45 Thr Tyr Leu Trp Pro Pro Ala Ile Leu Tyr Arg Ala Ile Val Leu Tyr 60 Ile Leu His Ile Arg Lys Leu Arg Leu Lys Val Asn Leu Ile Cys Leu 70 Cys Gln Ser Gln Asp <210> 5650 <211> 269 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (4) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (177) <223> Xaa equals any of the naturally occurring L-amino acids <400> 5650 Gly Pro Tyr Xaa Tyr Phe Leu Pro Gly Glu Cys Leu Asp Cys Ser Pro 15 Leu Leu Val Leu Gln Gly Val Thr His Ala Ala Ile Trp Ala Ala Cys 25 Ile Ser Tyr Leu Ser Ala Ala Val Pro Pro Glu Leu Arg Thr Ser Ala 35 40 Gln Gly Ile Leu Gln Gly Leu His Leu Gly Leu Gly Arg Gly Cys Gly 50 55 Ala Met Ile Gly Gly Val Leu Val Asn Tyr Phe Gly Ala Ala Ala Thr Phe Arg Gly Ile Gly Met Ala Cys Leu Val Ile Leu Leu Phe Ala 85 90

Leu Ala Glu Arg Ile Pro Val Pro Ser Ser Pro Val Pro Ile Ala Thr

Leu Ile Gln Trp Leu Ala Val Pro Asp Glu Glu Glu Asp Lys Thr Met

110

4971

125 115 120 Ile Asp Leu Val Gln Gln Gln Thr Glu Asp Val Met Pro Arg Ile Glu 135 140 Pro Arg Leu Pro Pro Lys Lys Thr Lys His Gln Glu Glu Gln Glu Asp 150 155 Val Asn Lys Pro Ala Trp Gly Val Ser Ser Pro Trp Val Thr Phe 165 170 Xaa Tyr Ala Leu Tyr Gln Ile Lys Glu Met Met Gln Leu Thr Arg Asp 185 180 Asn Arg Ala Ser Glu Ile Gln Pro Leu Gln Gly Thr Asn Glu Asn Arg 200 Glu Asn Ser Pro Ala Gly Arg Ala Gln Pro Val Pro Cys Glu Thr His 215 220 Ser Asp Pro Ser Arg Asn Gln Pro Ser Pro Asp Ala Ala Ala Ser Gln 225 230 235 240 Thr Gln Thr Ser Pro Ala His Pro Ser Val Asp Pro Cys Thr Glu Glu 245 250 Ser Glu Glu Gln Gln Ala Gln Leu Ala Ala Gly Gly His 260 265

<210> 5651 <211> 364 <212> PRT

<213> Homo sapiens

<400> 5651

Cys Leu Arg Lys Ser Phe Glu Met Thr Val Glu Lys Val Gln Gly Ile 1 5 10 15

Ser Arg Leu Glu Gln Leu Cys Glu Glu Phe Ser Glu Glu Glu Arg Val 20 25 30

Arg Glu Leu Lys Gln Glu Lys Lys Arg Gln Lys Arg Lys Asn Arg Arg 35 40 45

Lys Asn Lys Cys Val Cys Asp Ile Pro Thr Pro Leu Gln Thr Ala Asp
50 55 60

Glu Lys Glu Val Ser Gln Glu Lys Glu Thr Asp Phe Ile Glu Asn Ser
65 70 75 80

Ser	Суѕ	Lys	Ala	Суs 85	Gly	Ser	Thr	Glu	Asp 90		' Asn	Thr	Суѕ	Val 95	Glu
Val	Ile	Val	Thr 100		Glu	Asn	Thr	Ser 105		Thr	Суз	Pro	Ser 110		Gly
Asn	Leu	Leu 115		Ser	Pro	Lys	Ile 120		Lys	Gly	Leu	Ser 125	Pro	His	Cys
Asn	Gly 130		Asp	Суѕ	Gly	Туг 135		Ser	Ser	Met	Glu 140	Gly	Ser	Glu	Thr
Gly 145	Ser	Arg	Glu	Gly	Ser 150	Asp	Val	Ala	Cys	Thr 155		Gly	Ile	Cys	Asn 160
His	Asp	Glu	His	Gly 165	Asp	Asp	Ser	Cys	Val 170	His	His	Cys	Glu	Asp 175	Lys
Glu	Asp	Asp	Gly 180	Asp	Ser	Cys	Val	Glu 185	Cys	Trp	Ala	Asn	Ser 190	Glu	Glu
Asn	Asp	Thr 195	Lys	Gly	Lys	Asn	Lys 200	Lys.	Lys	Lys	Lys	Lys 205	Ser	Lys	Ile
Leu	Lys 210	Cys	Asp	Glu	His	Ile 215	Gln	Lys	Leu	Gly	Ser 220	Cys	Ile	Thr	Asp
Pro 225	Gly	Asn	Arg	Glu	Thr 230	Ser	Gly	Asn	Thr	Met 235	His	Thr	Val	Phe	His 240
Arg	Asp	Lys	Thr	Lys 245	Asp	Thr	His	Pro	Glu 250	Ser	Cys	Суѕ	Ser	Ser 255	Glu
Lys	Gly	Gly	Gln 260	Pro	Leu	Pro	Trp	Phe 265	Glu	His	Arg	Lys	Asn 270	Val	Pro
Gln	Phe	Ala 275	Glu	Pro	Thr	Glu	Thr 280	Leu	Phe	Gly	Pro	Asp 285	Ser	Gly	Lys
Gly	Ala 290	Lys	Ser	Leu	Val	Glu 295	Leu	Leu	Asp	Glu	Ser 300	Glu	Cys	Thr	Ser
Asp 305	Glu	Glu	Ile	Phe	Ile 310	Ser	Gln	Asp	Glu	Ile 315	Gln	Ser	Phe	Met	Ala 320
Asn	Asn	Gln	Ser	Phe 325	Tyr	Ser	Asn	Arg	Glu 330	Gln	Tyr	Arg	Gln	His 335	Leu
Lys	Glu	Lys	Phe 340	Asn	Lys	Tyr	Cys	Arg 345	Leu	Asn	Asp	His	Lys 350	Arg	Pro

Ile Cys Ser Gly Trp Leu Thr Thr Ala Gly Ala Asn 355 360

<210> 5652

<211> 90

<212> PRT

<213> Homo sapiens

<400> 5652

Ala Thr Leu Trp Asp Gly His Ala Ala Val Trp His Gly Tyr Glu Val 1 5 10 15

His Gly Met Glu Lys Ile Pro Glu Asp Gly Pro Ala Leu Ile Ile Phe 20 25 30

Tyr His Gly Ala Ile Pro Ile Asp Phe Tyr Tyr Phe Met Ala Lys Ile 35 40 45

Phe Ile His Lys Gly Arg Thr Cys Arg Val Val Ala Asp His Phe Val 50 55 60

Phe Lys Ile Gln Gly Leu Val Tyr Tyr Trp Met Cys Phe Val Leu Tyr 65 70 75 80

Met Asp Gln Glu Lys Asn Val Leu Lys Phe 85 90

<210> 5653

<211> 104

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5653

His Ser Xaa Met Trp Leu Val His Leu Thr Arg Glu Glu Trp Gly Tyr

1 5 10 15

Leu Asp Pro Val Gln Arg Asp Leu Tyr Arg Glu Val Met Leu Glu Asn 20 25 30

Tyr Gly Asn Val Val Ser Leu Gly Ile Leu Leu Arg Leu Pro Thr Thr 35 40 45

Arg Ile His Ser Val Asn Ser Cys Pro Ala Leu Ser His Thr Gln Ala 50 55 60

Ser Ala Phe Ser Gly Glu Thr Leu Ala Val Leu Thr Ala Gly Ile Ser 65 70 75 80

Lys Arg Trp Pro Lys Tyr Arg Leu Pro Ile Asp Ile Ala Arg Pro Cys 85 90 95

Ser Glu Thr Pro Phe Pro Arg Leu 100

<210> 5654

<211> 49

<212> PRT

<213> Homo sapiens

<400> 5654

Pro Leu Lys Thr Phe Pro Val Cys Leu Val Ile Ala Lys Pro Arg Lys

1 10 15

Ile Ser Phe Leu Ser Ser Tyr Arg Glu Leu Ala Met Lys Leu Lys Phe 20 25 30

Asn Cys Val Ser Arg Ser Leu Ile Phe Leu Gln Ile Ile Asn Tyr Val 35 40 45

Leu

<210> 5655

<211> 40

<212> PRT

<213> Homo sapiens

<400> 5655

Lys Leu Asp Phe Lys Ile Thr Asn Glu Arg Asn Leu Ile Leu Phe Cys

1 5 10 15

Asp Arg Ser Gln Val Leu Gln Trp Phe Ala Ile Gln Asn Leu Ile Ile 20 25 30

Val Lys Pro Gln Phe Lys Arg Leu

35

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<210> 5656
<211> 74
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (48)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5656
Gly Tyr Leu Cys Leu Leu Cys Ile Leu Val Met Ala Arg Ser Arg Leu
Ser Thr Thr Gly Arg His Pro Ala Val Val Ser Leu Leu Glu Leu Asn
                                 25
             20
Val Trp Leu Ser Lys Ile Leu Ser Ile Glu Ser Leu Ser Leu Lys Xaa
                             40
         35
Leu Leu Gln Met Asn Ala Gln His Glu Ile Phe Lys Ile Val Ser Tyr
                                              60
Thr Leu Gly Ser Asn Lys Gln Lys Ile Leu
                    70
<210> 5657
<211> 121
<212> PRT
<213> Homo sapiens
<400> 5657
Phe Ser Val Thr Gly Gln Ala Pro Val Glu Ile Ser Phe Val Leu Leu
Trp Ala Gln Arg Trp Trp Phe Gly Ser Ser Glu Asp Cys Leu Gly
             20
                                 25
                                                      30
Arg Phe Ser Gly His Gly Ala Leu Cys Trp Pro Gly Trp Gly Trp Pro
         35
                              40
Arg Arg Cys Pro Phe Pro Gly Ala Leu Trp Trp Leu Gln Lys Thr Ser
                         55
Phe Val Glu Asn Cys Phe Ser Ala Trp Asn Gln Thr Ser Ser Arg Trp
                                         75
```

Phe Gly Pro Cys Pro Cys Val Gly His Tyr His Thr Lys Arg Pro Ile

4976

85 90 95

Lys Ile Lys Lys Lys Lys Lys Thr Asn Tyr Trp Arg Trp Trp 100 105 110

Pro Met Met His Leu Leu Phe Ala Gly 115 120

<210> 5658

<211> 25

<212> PRT

<213> Homo sapiens

<400> 5658

Trp Thr Pro Val Ile Pro Gly Thr Arg Glu Ala Glu Ala Gly Glu Ser
1 5 10 15

Leu Glu Pro Gly Arg Gln Arg Leu Gln
20 25

<210> 5659

<211> 52

<212> PRT

<213> Homo sapiens

<400> 5659

Ser Ile Asp Thr Phe Tyr Ile Gln Phe Tyr Lys Tyr Lys Tyr Tyr Asn $1 \hspace{1cm} 5 \hspace{1cm} 10 \hspace{1cm} 15$

Phe Ile Leu Met Val Pro Lys Ile His Phe Leu Arg Leu Lys Ala Cys 20 . 25 30

Thr Ser Met His Thr Cys Phe Trp Gly Glu Trp Gly Glu Asp Ile Leu 35 40 45

Ile Ile Ser Leu 50

<210> 5660

<211> 49

<212> PRT

<213> Homo sapiens

<400> 5660

Tyr Ile Phe Leu Ile Ser Tyr Arg Leu Tyr Arg Lys Glu Val Leu Glu

4977

1 5 10 15 Lys Leu Ile Glu Lys Cys Val Ser Lys Gly Tyr Val Phe Gln Met Glu 25 20 Met Ile Val Arg Ala Arg Gln Leu Asn Tyr Thr Ile Gly Glu Val Cys 40 Asn <210> 5661 <211> 222 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (115) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (117) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (118) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (156) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (194) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (217) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (218)

4978

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5661

Gln Trp Val Ala Tyr Gly Ser Glu Pro His Thr Ser Val Pro Val Pro 1 5 10 15

Ala Gly Ser Leu Pro Asp His Ala Val His Arg Pro His Asp Arg Cys 20 25 30

Ala Arg Ser Gly Val Met Pro Pro Ala Gln Leu Thr Thr Ile Asn Gln
35 40 45

Ser Gln Leu Ser Ala Gln Leu Gly Leu Asn Leu Gly Gly Ala Ser Met 50 55 60

Pro His Thr Ser Pro Ser Pro Pro Ala Ser Lys Ser Ala Thr Pro Ser 65 70 75 80

Pro Ser Ser Ser Ile Asn Glu Glu Asp Ala Asp Glu Ala Asn Arg Ala 85 90 95

Ile Gly Glu Lys Arg Ala Ala Pro Asp Ser Gly Lys Lys Pro Lys Thr 100 105 110

Pro Lys Xaa Lys Xaa Lys Asp Pro Asn Glu Pro Gln Lys Pro Val 115 120 125

Ser Ala Tyr Ala Leu Phe Phe Arg Asp Thr Gln Ala Ala Ile Lys Gly 130 135 140

Met Trp Asp Ser Leu Gly Glu Glu Gln Lys Gln Val Tyr Lys Arg Lys 165 170 175

Thr Glu Ala Ala Lys Lys Glu Tyr Leu Lys Ala Leu Ala Ala Tyr Arg 180 185 190

Ala Xaa Leu Val Ser Lys Ala Ala Ala Glu Ser Ala Glu Ala Gln Thr 195 200 205

Ile Arg Ser Val Gln Gln Thr Leu Xaa Xaa Thr Asn Leu Thr 210 215 220

<210> 5662

<211> 48

<212> PRT

<213> Homo sapiens

<400> 5662

Arg Tyr Ile Ile Thr Lys Leu Lys Leu Cys Phe Cys Phe Ile Gln Arg
1 5 10 15

Asn Leu Lys Ile Ile Asp Lys Lys Phe Leu Phe Arg Ala Met Ser Leu 20 25 30

Tyr His Thr Leu Gly Asn Glu Thr Leu Ser Tyr Val Leu Ser Asp Asn 35 40 45

<210> 5663

<211> 94

<212> PRT

<213> Homo sapiens

<400> 5663

Lys Leu Arg Tyr Ile Leu Pro Lys Asn Phe Phe Asn Lys Ile Ala Lys
1 5 10 15

Asn Ile Leu Phe Arg His Phe Asn Val Pro Ile Tyr Asn Trp Ile Phe

Ser Leu Asn Ser Thr Gln Ser Cys Gly Phe Tyr Phe Gln Leu Ile Phe 35 40 45

Phe Leu Val Gly Ser Val His Gly Ile Ile Ser Leu Ser Arg Gly Leu 50 55 60

Ser Cys Met Cys Ala Glu Phe Val Lys Glu Ser Ile Gly Arg Cys Arg 65 70 75 80

Arg Pro Arg Phe Ala Phe Lys Val Phe Phe Arg Leu Cys Gly 85 90

<210> 5664

<211> 65

<212> PRT

<213> Homo sapiens

<400> 5664

Gly Val Phe Ala Ala Met Tyr Ser Tyr Ser Ser Met Leu Thr Leu Pro 1 5 10 15

4980

```
Phe Asp Val Val Gln Asn Leu Asp Leu Ser Pro Trp Ile Ser Pro Val
                                 25
Val Pro Ala Ser Arg Gly Ile Phe Leu His Val Ser Gln Pro Pro Ser
         35
                             40
Cys Ser Arg Val Leu Leu Asp Leu Gly Phe Ser Cys Pro Ser Leu Leu
                         55
Gly
 65
<210> 5665
<211> 111
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (95)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (103)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5665
Ile Ser Asn Thr Ser Ser Asp Cys Arg Pro Ser Glu Glu Ser Glu Leu
Leu Thr Asp Thr Thr Asn Ile Leu Ser Gly Thr Thr Ser Thr Val
             20
                                 25
Glu Ser Asp Ile Leu Thr Gln Thr Asp Arg Glu Val Ala Leu His Glu
         35
                             40
Arg Ser Ser Val Ser Thr Ile Asp Thr Ala Arg Leu Ile Gln Ala
                         55
Phe Gly His Glu Arg Val Cys Leu Ser Pro Arg Arg Ile Lys Leu Tyr
                     70
                                         75
Ser Ser Ile Thr Asn Gln Gln Arg Arg Tyr Leu Glu Glu Ala Xaa Lys
                 85
His Ser Lys Lys Val Leu Xaa Tyr Arg Ser Ser Pro Ser Asp Phe
```

105

110

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<210> 5666
<211> 129
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (29)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (80)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (91)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (106)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (112)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5666
Gly Pro Ser Trp Val Arg Leu Gly Leu Ser Trp Ala Leu Tyr Val Phe
                                      10
Trp Ile Gln Gly Tyr Trp Ala Arg Tyr Val Cys Gly Xaa Ile Pro Ser
              20
                                  25
Leu Pro Gln Pro His Leu Pro Leu Lys Pro Ser Leu Ala Leu Ser Glu
         35
                              40
                                                  45
Leu Pro Phe Leu Leu Pro Ser Leu Pro Ser Ala Gln Cys Pro Thr Trp
                          55
Leu Phe Cys Tyr Phe Gly Ser Gly Gly Thr Ser Trp Glu Cys Glu Xaa
                      70
Pro Tyr Arg Lys Ile Ala Leu Gln Glu Kaa Leu Gln Gly Thr Ile
                  85
                                      90
                                                          95
```

4982

Leu Asn Pro Lys Ala Trp Asn Leu Leu Xaa His Phe Thr Phe Val Xaa 105

Lys Gly Leu Leu Asn Ala Leu Glu Lys Asp Leu Gly Pro Glu Leu Leu 120

Ser

<210> 5667

<211> 124

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

. <221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

Pro Ile His Glu Leu Met Pro Glu Asp Arg Ala Ser Thr Pro Arg Thr 10

Thr Thr Met Thr Phe Thr Cys Xaa Xaa Phe Phe Asp Leu Phe Asn Ala 25

Leu Thr Cys Arg Ser Gln Thr Lys Leu Ile Phe Glu Ile Gly Phe Leu 40

Arg Asn His Met Phe Leu Tyr Ser Val Leu Gly Ser Ile Leu Gly Gln 50 55

Leu Ala Val Ile Tyr Ile Pro Pro Leu Gln Arg Val Phe Gln Thr Glu 70 75

Asn Leu Gly Ala Leu Asp Leu Leu Phe Leu Thr Gly Leu Ala Ser Ser 90

Val Phe Ile Leu Ser Glu Leu Leu Lys Leu Cys Glu Lys Tyr Cys Cys 100

Ser Pro Lys Arg Val Gln Met His Pro Glu Asp Val 115 120

```
<210> 5668
<211> 50
<212> PRT
<213> Homo sapiens
<400> 5668
Val Ser Val Lys Gln Phe Tyr Phe Ser Tyr Val Thr Val Ala Gly Tyr
                  5
Asp Leu Asn Phe Val Phe Arg Pro Pro Ala Arg Ile Leu Cys Leu Leu
             20
                                 25
Leu Tyr Ser Arg Ser Val Phe Leu Pro Arg Leu Arg His Arg Gly Pro
                             40
         35
Gln Pro
     50
<210> 5669
<211> 170
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (38)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (63)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (97)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (154)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5669
Leu Leu His Leu Ile Leu Tyr Met Ser Asn Ala Ser Phe Leu Ser Val
                                                           15
                  5
                                      10
```

4984

Cys Leu Leu Ala Glu Asn Pro Val Gln Leu Ser Pro Gly Cys His Gly 25 Lys Tyr Asp Lys Glu Xaa Thr Leu Gly Leu Gly Leu Lys Gly Leu Val 40 45 · Ile Gln Lys Thr Arg Glu Gly Cys Thr Cys Arg Val Ile Tyr Xaa Arg Asn Leu Ile Lys Tyr Leu Ala His Arg Ser Tyr Lys Glu Ser Phe Gln 70 Arg Gly Pro Leu Ala Thr Ala Gly Phe Phe Val Arg Asn Ile Cys Val 90 Xaa Phe Tyr Pro Arg Glu Gln Asn Pro Arg Lys Gly Ser Phe Ile Ile 100 105 Tyr Ser His Phe Ser Ser Phe Leu Asn Lys Thr Phe Ser Ser Arg Asn 120 Thr Ala Phe Glu Gly Leu Cys Phe Met Gln Pro Ala Ser Leu Val Asp 135 Leu Phe Thr Arg Ser His Gln Val Ile Xaa Ser Ile Leu Gly Arg Trp 145 150 155 Arg Lys Gln Thr Asp Thr Val Ser Arg Cys 165 <210> 5670 <211> 83 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (61) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (75) <223> Xaa equals any of the naturally occurring L-amino acids <400> 5670

Tyr Val Leu Ser Ala Phe Arg Gly Leu Ser Arg Val Ile Asp Arg His

4985

Leu Asn Glu Ala Leu Ser Phe Leu Lys Cys Lys Val Gly Glu Thr Gln
20 25 30

Asp Thr Arg Lys Arg Lys Asp Ile Val His Ile Val Val Ala Val Ala 35 40 45

Leu Arg Thr Val Leu Ala Arg Asp Arg Leu Gly Ile Xaa Ile Asn Pro 50 55 60

Gly His Trp Gly Ser Phe Ser Gly Ser Leu Xaa Leu Ser Leu Pro Gly 65 70 75 80

Ser Thr His

<210> 5671

<211> 98

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5671

Val His Phe Ile Ser Thr Phe Tyr Tyr Ile Tyr Leu Ile Ala Gln Val 1 5 10 15

Leu Leu Ser Arg Lys Lys Trp Asp Val Ala Asn Thr Ala Leu Leu Ala 20 25 30

Cys Arg Gln Cys Cys Pro Val Asn Arg Leu Lys Cys Ile Phe Ile Ser 35 40 45

Trp Tyr Ile Asn Leu Arg Lys Glu Lys Lys Lys Lys Lys Lys Lys 50 55 60

Gly Gly

<210> 5672 <211> 199 <212> PRT <213> Homo sapiens

<400> 5672

Val Phe Leu Thr Tyr Ser Gly Gly Asp Ser Val Met Gln Ile Val Met

1 5 10 15

Phe Asp Arg Gln Ser Ile Phe Ile His Gly Met Lys Ile Ser Leu Gln 20 25 30

Gln Arg Ile Pro Gly Val Ser Ile Gln Gly Ala Ser Gln Ala Asp Glu 35 40 45

Leu Trp Gln Lys Leu Glu Ser Tyr Pro Glu Ala Leu Val Met Leu Asp 50 55 60

Gly Asp Gln Asp Gly Glu Phe Cys Tyr Trp Leu Leu Gln Lys Thr Val 65 70 75 80

Val Gln Phe Pro Glu Val Lys Val Leu Ile Thr Ala Thr Asp Cys Asn 85 90 95

Lys Arg Trp Leu Gln Glu Val Ile His Phe Asn Val Leu Ala Ile Val 100 105 110

Pro Arg Asp Ser Thr Val Glu Thr Phe Ala Leu Ala Val Asn Ser Ala 115 120 125

Ala Met Gly Met Met Phe Leu Pro Gly Asp Trp Arg Thr Thr Pro Glu 130 135 140

Lys Asp Ile Lys Asp Leu Lys Ser Leu Ser Ala Arg Gln Arg Glu Ile 145 150 155 160

Leu Thr Met Leu Ala Ala Gly Glu Ser Asn Lys Glu Ile Gly Arg Ala 165 170 175

Leu Asn Ile Ser Thr Gly Thr Val Lys Ala His Leu Glu Ser Leu Tyr 180 185 190

Arg Arg Leu Glu Val Lys Asn 195

<210> 5673

<211> 192 <212> PRT

<213> Homo sapiens

<220	>														
<221	.> SI	TE													
<222	> (1	.66)													
<223	> Xa	a eç	guals	any	of	the	natu	ırall	y oc	curr	ing	L-an	nino	acid	s
<220)>														
<221	.> SI	TE													
<222	?> (1	.72)													
<223	> Xa	a eç	mals.	any	of	the	natu	rall	y oc	curi	ring	L-an	nino	ació	ls
<400)> 56	73													
Ile	Met	Leu	His	Ala	Glu	Ala	Pro	Ala	Pro	Ala	Arg	Phe	Pro	Ala	Phe
1				5					10					15	*
Ser	Met	Gly	His	Gly	Gly	Ala	Phe	Gly	Glu	Gly	Leu	Cys	Gly	Phe	Pro
			20					25					30		
Pro	Lys	Ser	Arg	Leu	Met	Pro	Leu	Ile	Pro	Ser	Gln	Glu	Val	Ala	Glu
		35					40					45			
Gly	Leu	Gly	Ser	Val	Gln	Ala	Pro	Arg	Gly	Gly	Asp	Val	Gln	Val	Lys
	50					55					60				
Gln	Gly	Val	Cys	Arg	Arg	Arg	Gly	Ser	Leu	Pro	Trp	Ala	Gly	Cys	Gln
65					70					75					80
His	Leu	Gly	Val	Pro	Gly	Суѕ	Gln	Glu	Lys	Phe	Thr	His	Thr	Arg	Ala
				85					90					95	
					_				_		_		_		_
Leu	Leu	Ala	_	Gly	Glu	Ser	Tyr		Gly	Arg	Ala	Arg		Leu	Ser
			100					105					110		
				_	_		_		_	_		_		_,	_
Arg	His		Val	Cys	Ser	GIn		Ser	Arg	Ser	Ala		Val	Thr	Trp
		115					120					125			
_	_	_						_	-1	-	-1 -	a	•	34-4	01
Asn		Pro	Ala	Pne	Arg		Leu	ser	Pne	гел		Cys	ren	Met	GIA
	130					135					140				
3			_	_,	-1					~ 1	73 1	~	•		
	Ala	He	Pro	Thr		Pro	Val	Leu	Val	_	Pne	Ser	Leu	qaA	
145					150					155					160
	~ 3	 1				~ 3	~ 3	-	~1	~ 3	47		D)	***	77- 7
GIn	Glu	Thr	Ala		хаа	Glu	GŢĀ	Leu		GIA	хаа	Leu	Pne	His	val
				165					170					175	
ml	D	•	T	D	C	De	*11.2 -	~ 1-	21-	~ 3	Q1	n1.	01	n 1 -	m
THY	rro	ьeu	Leu 180		CAR	PIO	nis	185		стА	стА	WIG	100	Ala	ırp

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<210> 5674
<211> 44
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (38)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5674
Leu Cys Asn Cys Ile Thr Val Thr Asn Glu Ile Leu Ser Leu Leu Leu
                                     10
Ser Ile Cys Pro Lys Lys Pro Pro Pro His Val Leu Ser Gly Glu Leu
                                 25
Pro Xaa His Phe Trp Xaa Thr Ala Gln Ile Asn Ser
        35
                             40
<210> 5675
<211> 92
<212> PRT
<213> Homo sapiens
<400> 5675
Glu Tyr Ser Ser Leu Ser Pro Arg Ile Asp Ser Ile Thr Gln Ser Asn
                  5
                                     10
Ile Asn Leu Asn Gly Leu Ala Pro Ser Phe Phe Ser Lys Asn Asn Gln
             20
Leu Ile Lys Lys Phe Glu Gly Leu Asn Tyr Phe Asn Gly Cys Leu
        35
                             40
Lys Tyr Ser Val Gln Phe Val Pro Val Ser Ser Leu Ser Val Trp Gly
                         55
Arg Ile Lys Tyr Cys Ala Lys Leu Val Leu Gly Tyr Ile Leu Gln His
65
                     70
                                         75
Leu Val Phe Tyr Leu Thr Asn Arg Ile Leu Val Pro
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4989

85 90

<210> 5676

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<211> 51
<212> PRT
<213> Homo sapiens
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<222> (47)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5676
Ala Arg Met Phe Thr Phe Gly Arg Leu Phe Gln Ile Ile Thr Val Val
                  5
                                                          15
Thr Cys Leu Gln Phe Ile Gln Asp Cys Cys Ile His Ser Arg Gln Ile
                                 25
             20
Asn Ser Leu Glu Thr Ser Ser Leu Ser Arg Cys Leu Glu Xaa Pro
                              40
                                                  45
Asp Val Cys
     50
<210> 5677
<211> 486
<212> PRT
<213> Homo sapiens
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<400> 5677
Gln Val Gln Ile Arg Ile Leu Asp Val Asn Asp Asn Ile Pro Val Val
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Glu	Asn	Lys	Val 20		Glu	Gly	Met	Val 25	Glu	Glu	Asn	Gln	Val 30	Asn	Va:
Glu	Val	Thr 35	Arg	Ile	Lys	Val	Phe 40	Asp	Ala	Asp	Glu	Ile 45	Gly	Ser	Ası
Asn	Trp 50	Leu	Ala	Asn	Phe	Thr 55	Phe	Ala	Ser	Gly	Asn 60	Glu	Gly	Gly	Туз
Phe 65	His	Ile	Glu	Thr	Asp 70	Ala	Gln	Thr	Asn	Glu 75	Gly	Ile	Val	Thr	Let 80
Ile	Lys	Glu	Val	Asp 85	Tyr	Glu	Glu	Met	Lys 90	Asn	Leu	Asp	Phe	Ser 95	Va]
Ile	Val	Ala	Asn 100	Lys	Ala	Ala	Phe	His 105	Lys	Ser	Ile	Arg	Ser 110	Lys	Туг
Lys	Pro	Thr 115	Pro	Ile	Pro	Ile	Lys 120	Val	Lys	Val	Lys	Asn 125	Val	Lys	Glu
Gly	Ile 130	His	Phe	Lys	Ser	Ser 135	Val	Ile	Ser	Ile	Tyr 140	Val	Ser	Glu	Ser
Met 145	Asp	Arg	Ser	Ser	Lys 150	Gly	Gln	Ile	Ile	Gly 155	Asn	Phe	Gln	Ala	Phe 160
Asp	Glu	Asp	Thr	Gly 165	Leu	Pro	Ala	His	Ala 170	Arg	Tyr	Val	Lys	Leu 175	Glu
Asp	Arg	Asp	Asn 180	Trp	Ile	Ser	Val	Asp 185	Ser	Val	Thr	Ser	Glu 190	Ile	Lys
Leu	Ala	Lys 195	Leu	Xaa	Asp	Phe	Glu 200	Ser	Arg	Xaa	Val	Gln 205	Asn	Gly	Thr
Tyr	Thr 210	Val	Lys	Ile	Val	Ala 215	Ile	Ser	Glu	Asp	Туг 220	Pro	Arg	Lys	Thr
Ile 225	Thr	Gly	Thr	Val	Leu 230	Ile	Asn	Val	Glu	Asp 235	Ile	Asn	Asp	Asn	Cys 240
Pro	Thr	Leu	Ile	Glu 245	Pro	Val	Gln	Thr	Ile 250	Суѕ	His	Asp	Ala	Glu 255	Tyr
Val	Asn	Val	Thr 260	Ala	Glu	Asp	Leu	Asp 265	Gly	His	Pro	Asn	Ser 270	Gly	Pro
Phe	Ser	Phe	Ser	Val	Ile	Asp	Lys	Pro	Pro	Gly	Met	Ala	Glu	Lys	Trp

4991

280 285 275 Lys Ile Ala Arg Gln Glu Ser Thr Ser Val Leu Leu Gln Gln Ser Glu 295 Lys Lys Leu Gly Arg Ser Glu Ile Gln Phe Leu Ile Ser Asp Asn Gln 315 Gly Phe Ser Cys Pro Glu Lys Gln Val Leu Thr Leu Thr Val Cys Glu 330 325 Cys Leu His Gly Ser Gly Cys Arg Glu Ala Gln His Asp Ser Tyr Val 340 345 Gly Leu Gly Pro Ala Ala Ile Ala Leu Met Ile Leu Ala Phe Leu Leu 360 Leu Leu Val Pro Leu Leu Leu Met Cys His Cys Gly Lys Gly 375 Ala Lys Gly Phe Thr Pro Ile Pro Gly Thr Ile Glu Met Leu His Pro 390 385 Trp Asn Asn Glu Gly Ala Pro Pro Glu Asp Lys Val Val Pro Ser Phe 405 410 Leu Pro Val Asp Gln Gly Gly Ser Leu Val Gly Arg Asn Gly Val Gly 425 Gly Met Ala Lys Glu Ala Thr Met Lys Gly Ser Ser Ala Ser Ile 445 435 440 Val Lys Gly Gln His Glu Met Ser Glu Met Asp Gly Arg Trp Glu Glu 450 455 His Arg Ser Leu Leu Ser Gly Arg Ala Thr Gln Phe Thr Gly Ala Thr

475

Gly Ala Xaa His Asp His 485

<210> 5678

<211> 311

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (135)

4992

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PCT/US00/26524 WO 01/22920

4993

240 235 225 230 Arg Lys Leu Phe Thr Ala Ile Arg Ala Leu Phe Leu Ala Val Cys Val 250 245 Leu Lys Val Ile Val Ser Leu Val Ser Leu Gly Val Gly Leu Arg Asn 265 260 Leu Cys Gly Gln Ser Ser Gln Pro Leu Asn Glu Glu Gly Ser Glu Lys 285 275 280 Arg Leu Leu Gly Glu Asn Ser Val Pro Pro Ser Pro Ser Arg Glu Gln 295 300 290 Thr Ser Thr Ala Ile Val Leu 305 310 <210> 5679 <211> 98 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (85) <223> Xaa equals any of the naturally occurring L-amino acids <400> 5679 Ala Gln Trp Leu Pro Leu Glu Glu Arg Gly Ala Glu Thr Glu Thr Lys 10 Val Gln Glu Arg Glu Asn Gly Glu Ser Pro Leu Glu Leu Glu Gln Leu 25 Asp Gln His His Glu Met Lys Glu Thr Asn Glu Gln Lys Leu His Lys 35 40 Ile Ala Asn Glu Leu Leu Thr Glu Arg Ala Tyr Val Asn Arg Leu 50 55 Asp Leu Leu Asp Gln Val Phe Tyr Cys Lys Leu Leu Glu Glu Ala Asn Arg Gly Ser Phe Xaa Ala Glu Met Val Ile Lys Ser Phe Leu Ile Phe 90

His Gln

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<210> 5680
<211> 58
<212> PRT
<213> Homo sapiens
<400> 5680
Ala Arg Lys Glu Ile Gln Tyr Cys Phe Trp Thr Leu Ile Lys Ser Cys
                                    10
                                                         15
Ala Ile Asp Thr Tyr Met Ser His Leu Ala Val Leu Arg Arg Ala Ile
             20
                                 25
Ile Thr Leu Gln Leu Thr Leu Glu Asn Ile Leu Ala Phe Glu His Phe
                             40
Ser Asn Asn Gln Val Asp Ser Arg Gly Ser
     50
                         55
<210> 5681
<211> 54
<212> PRT
<213> Homo sapiens
<400> 5681
Ser Leu Thr Ser Lys Pro Glu Thr Ser Glu Ile Leu Lys Ala Asn Leu
                                    10
Phe Ser Leu Leu Cys Ile Lys Phe Ile Tyr Leu Lys Cys Tyr Cys Ser
             20
Trp Leu Arg Ile Ile Leu Cys Lys Phe Ser Phe Phe Val Val Cys Leu
         35
                             40
                                                 45
Phe Ala Cys Cys Ser Pro
    50
<210> 5682
<211> 486
<212> PRT
<213> Homo sapiens
<220>
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<222> (7)
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<220>
<221> SITE
<222> (400)
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<220>
<221> SITE
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<400> 5682
Ser Ser Thr Ala Val Thr Xaa Ala Leu Glu Leu Val Asp Pro Pro Gly
Cys Arg Asn Ser Ala Arg Gly Tyr Ile Gln Tyr Gly Asn Glu Glu
             20
Arg Lys Gln Ala Phe Glu Glu Leu Arg Asp Asp Leu Val Glu Leu Ser
                             40
         35
Lys Ala Lys Tyr Ser Arg Asn Ile Val Lys Lys Phe Leu Met Tyr Gly
Ser Lys Pro Gln Ile Ala Glu Ile Ile Arg Ser Phe Lys Gly His Val
                     70
                                         75
 65
Arg Lys Met Leu Arg His Ala Glu Ala Ser Ala Ile Val Glu Tyr Ala
                 85
Tyr Asn Asp Lys Ala Ile Leu Glu Gln Arg Asn Met Leu Thr Glu Glu
                                105
            100
Leu Tyr Gly Asn Thr Phe Gln Leu Tyr Lys Ser Ala Asp His Arg Thr
                            120
Leu Asp Lys Val Leu Glu Val Gln Pro Glu Lys Leu Glu Leu Ile Met
                        135
                                             140
    130
Asp Glu Met Lys Gln Ile Leu Thr Pro Met Ala Gln Lys Glu Ala Val
                     150
                                         155
145
Ile Lys His Ser Leu Val His Lys Val Phe Leu Asp Phe Phe Thr Tyr
                                     170
                165
Ala Pro Pro Lys Leu Arg Ser Glu Met Ile Glu Ala Ile Arg Glu Ala
```

			180					185					190		
Val	Val	Туг 195	Leu	Ala	His	Thr	His 200	Asp	Gly	Ala	Arg	Val 205	Ala	Met	His
Cys	Leu 210	Trp	His	Gly	Thr	Pro 215	Lys	Asp	Arg	Lys	Val 220	Ile	Val	Lys	Thr
Met 225	Lys	Thr	Tyr	Val	Glu 230	Lys	Val	Ala	Asn	Gly 235	Gln	Tyr	Ser	His	Leu 240
Val	Leu	Leu	Ala	Ala 245	Phe	Asp	Cys	Ile	Asp 250	Asp	Thr	Lys	Leu	Val 255	Lys
Gln	Ile	Ile	Ile 260	Ser	Glu	Ile	Ile	Ser 265	Ser	Leu	Pro	Ser	Ile 270	Val	Asn
Asp	Lys	Tyr 275	Gly	Arg	Lys	Val	Leu 280	Leu	Tyr	Leu	Leu	Ser 285	Pro	Arg	Asp
Pro	Ala 290	His	Thr	Val	Arg	Glu 295	Ile	Ile	Glu	Val	Leu 300	Gln	Lys	Gly	Asp
Gly 305	Asn	Ala	His	Ser	Lys 310	Lys	Asp	Thr	Glu	Val 315	Arg	Arg	Arg	Glu	Leu 320
Leu	Glu	Ser	Ile	Ser 325	Xaa	Ala	Leu	Leu	Ser 330	Туr	Leu	Gln	Glu	His 335	Ala
Gln	Glu	Val	Val 340	Leu	Asp	Lys	Ser	Ala 345	Cys	Val	Leu	Val	Ser 350	Asp	Ile
Leu	Gly	Ser 355	Ala	Thr	Gly	Asp	Val 360	Gln	Pro	Thr	Met	Asn 365	Ala	Ile	Ala
Ser	Leu 370	Ala	Ala	Thr	Gly	Leu 375	His	Pro	Gly	Gly	Lys 380	Asp	Gly	Glu	Leu
His 385	Ile	Ala	Glu	His	Pro 390	Ala	Gly	His	Leu	Val 395	Leu	Lys	Trp	Leu	Xaa 400
Glu	Gln	Asp	Lys	Lys 405	Xaa	Lys	Glu	Asn	Gly 410	Arg	Glu	Gly	Суѕ	Phe 415	Ala
Lys	Thr	Leu	Val 420	Glu	His	Val	Gly	Met 425	Lys	Asn	Leu	Lys	Ser 430	Trp	Ala
Ser	Val	Asn 435	Arg	Gly	Ala	Ile	Ile 440	Leu	Ser	Ser	Leu	Leu 445	Gln	Ser	Суз
Asp	Leu	Glu	Val	Ala	Asn	Lys	Val	Lys	Ala	Ala	Leu	Lys	Ser	Leu	Ile

4997

460 450 455 Pro Thr Leu Glu Lys Thr Lys Ser Thr Ser Lys Gly Ile Glu Ile Leu 475 470 Leu Glu Lys Leu Ser Thr 485 <210> 5683 <211> 213 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (90) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (138) <223> Xaa equals any of the naturally occurring L-amino acids <400> 5683 Val Leu Asp Val Ala Ala Gly Met Ile Lys Pro Gly Val Thr Thr Glu Glu Ile Asp His Ala Val His Leu Ala Cys Ile Ala Arg Asn Cys Tyr 20 25 Pro Ser Pro Leu Asn Tyr Tyr Asn Phe Pro Lys Ser Cys Cys Thr Ser 35 40 Val Asn Glu Val Ile Cys His Gly Ile Pro Asp Arg Pro Leu Gln 55 Glu Gly Asp Ile Val Asn Val Asp Ile Thr Leu Tyr Arg Asn Gly Tyr 70 75 His Gly Asp Leu Asn Glu Thr Phe Phe Xaa Gly Glu Val Asp Asp Gly 90 95 Ala Arg Lys Leu Val Gln Thr Thr Tyr Glu Cys Leu Met Gln Ala Ile

105

Asp Ala Val Lys Pro Gly Val Arg Tyr Arg Glu Leu Gly Asn Ile Ile 115 120 125

Gln Lys His Ala Gln Ala Asn Gly Phe Xaa Val Val Arg Ser Tyr Cys

110

4998

130 135 140 Gly His Gly Asn Pro Gln Ala Phe Ser Tyr Ser Ser Gln Cys Thr Pro 145 155 Leu Cys Leu Lys Ile Lys Gln Leu Gly Val Met Glu Val Gly Pro Cys 165 170 Ile Tyr Asn Trp Ser Gln Trp Phe Val Glu Gly Gly Trp Gln Asp Gly 180 185 190 Asn Leu Gly Gln Met Val Gly Thr Ala Val Asp Lys Arg Arg Glu Ser 195 200 205 Gly Leu Leu Gln Phe 210 <210> 5684 <211> 279 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (39) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (251) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (256) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (257) <223> Xaa equals any of the naturally occurring L-amino acids Thr His Ala Ser Ala His Thr Thr Asn Pro Glu Gln Thr Leu Pro Gly 5 Thr Asn Leu Thr Gly Phe Leu Ser Pro Val Asp Asn His Met Arg Asn 20 25

4999

Leu	Thr	Ser 35	Gln	Asp	Leu	Xaa	Tyr 40	Asp	Leu	Asp	Ile	Asn 45	Ile	Phe	Asp
Glu	Ile 50	Asn	Leu	Met	Ser	Leu 55	Ala	Thr	Glu	Asp	Asn 60	Phe	Asp	Pro	Ile
Asp 65	Val	Ser	Gln	Leu	Phe 70	Asp	Glu	Pro	Asp	Ser 75	Asp	Ser	Gly	Leu	Ser 80
Leu	Asp	Ser	Ser	His 85	Asn	Asn	Thr	Ser	Val 90	Ile	Lys	Ser	Asn	Ser 95	Ser
His	Ser	Val	Cys 100	Asp	Glu	Gly	Ala	Ile 105	Gly	Tyr	Cys	Thr	Asp 110	His	Glu
Ser	Ser	Ser 115	His	His	Asp	Leu	Glu 120	Gly	Ala	Val	Gly	Gly 125	Tyr	Tyr	Pro
Glu	Pro 130	Ser	Lys	Leu	Cys	His 135	Leu	Asp	Gln	Ser	Asp 140	Ser	Asp	Phe	His
Gly 145	Asp	Leu	Thr	Phe	Gln 150	His	Val	Phe	His	Asn 155	His	Thr	Tyr	His	Leu 160
Gln	Pro	Thr	Ala	Pro 165	Glu	Ser	Thr	Ser	Glu 170	Pro	Phe	Pro	Trp	Pro 175	Gly
Lys	Ser	Gln	Lys 180	Ile	Arg	Ser	Arg	Туг 185	Leu	Glu	Asp	Thr	Asp 190	Arg	Asn
Leu	Ser	Arg 195	Asp	Glu	Gln	Arg	Ala 200	Lys	Ala	Leu	His	Ile 205	Pro	Phe	Ser
Val	Asp 210	Glu	Ile	Val	Gly	Met 215	Pro	Val	Asp	Ser	Phe 220	Asn	Ser	Met	Leu
Ser 225		Туr	Tyr	Leu	Thr 230		Leu	Gln	Val	Ser 235		Ile	Arg	Asp	11e 240
Arg	Arg	Arg	Gly	Lys 245	Asn	Lys	Val	Ala	Ala 250		Asn	Cys	Arg	Lys 255	
Xaa	Leu	Asp	Ile 260		Leu	Asn	Leu	Glu 265		Asp	Gly	Met	Val 270		Tr
Pro	Ala	Lys	Lys	Gly	Asn	Pro									

<210> 5685

5000

<211> 234 <212> PRT <213> Homo sapiens

<400> 5685

Lys Asn Leu Thr Glu Asn Gln Glu Ala Leu Ala Lys Glu Met Arg Ala 1 5 10 15

Asp Ala Asp Ala Tyr Arg Arg Lys Val Asp Leu Glu Glu His Met Phe 20 25 30

His Lys Leu Ile Glu Ala Gly Glu Thr Gln Ser Gln Lys Thr Gln Lys
35 40 45

Val Ile Lys Glu Asn Leu Ala Lys Ala Glu Gln Ala Cys Leu Asn Thr 50 55 60

Asp Trp Gln Ile Gln Ser Leu His Lys Gln Lys Cys Asp Asp Leu Gln 65 70 75 80

Arg Asn Lys Cys Tyr Gln Glu Val Ala Lys Leu Leu Arg Glu Asn Arg 85 90 95

Arg Lys Glu Ile Glu Ile Ile Asn Ala Met Val Glu Glu Glu Ala Lys 100 105 110

Lys Trp Lys Glu Ala Glu Gly Lys Glu Phe Arg Leu Arg Ser Ala Lys
115 120 125

Lys Ala Ser Ala Leu Ser Asp Ala Ser Arg Lys Trp Phe Leu Lys Gln 130 135 140

Glu Ile Asn Ala Ala Val Glu His Ala Glu Asn Pro Cys His Lys Glu 145 150 155 160

Glu Pro Arg Phe Gln Asn Glu Gln Asp Ser Ser Cys Leu Pro Arg Thr 165 170 175

Ser Gln Leu Asn Asp Ser Ser Glu Met Asp Pro Ser Thr Gln Ile Ser 180 185 190

Leu Asn Arg Arg Ala Val Glu Trp Asp Thr Thr Gly Gln Asn Leu Ile 195 200 205

Lys Lys Val Arg Asn Leu Arg Gln Arg Leu Thr Ala Arg Ala Arg His 210 215 220

Arg Cys Gln Thr Pro His Leu Leu Ala Ala 225 230

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<210> 5686
<211> 113
<212> PRT
<213> Homo sapiens
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<400> 5686
Glu Ile Lys Phe Cys Phe Tyr Leu Gly Thr Arg Ala Leu Gln Asp Leu
                                     10
Ile Pro Ala Tyr Leu Ser Ser Leu Asp Ser Leu Tyr Ser Ser Ile Trp
             20
                                 25
Lys Cys Gly Pro Trp Thr Glu Ala Leu Pro Asn Asn Ala Glu His Leu
                             40
Val Leu Pro Phe Ala Arg Met Val Leu Met Val Pro Lys Ile Thr Ala
Ser Xaa Pro Lys Phe Arg Thr Gln Ile Thr Leu Trp Arg Arg Pro Gln
                     70
                                          75
Pro Leu Ala Xaa Ala Phe Lys Ala Leu Arg Asp Leu Asp Thr Arg Leu
                 85
                                     90
Ala Leu Ile Tyr Ile Tyr Phe Lys Ser Ile Ser Ser Leu Ser His Ala
                               105
His
<210> 5687
<211> 78
<212> PRT
<213> Homo sapiens
<400> 5687
Leu Asp Ile Lys Thr Ser Tyr Ser Leu Asn Pro Lys Ala Lys Leu Met
                                      10
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Ser Arg Ala Asn Gln Ser Ser Trp Gly Gln Asn Arg Thr Lys Thr Tyr 20 25 30 Leu Met Gln Gly Ile Glu Ala Arg Pro Lys Thr Gly Gln Pro Asn Arg 40 Met Gly His Leu Pro Pro Leu Met Pro Ala Cys Pro Ser Val Ile Ile 55 Asn Ser Ala Pro Phe His Ser Pro Lys Ser Pro Val Gln Thr 70 <210> 5688 <211> 43 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (10) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (11) <223> Xaa equals any of the naturally occurring L-amino acids <400> 5688 Leu Ser Leu Thr Lys Gly Asn Lys Ser Xaa Xaa Ser Thr Ala Val Ala 15 Ala Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg Ala Ser Asn Leu Tyr Phe Tyr Leu Leu Cys Ile 40 <210> 5689 <211> 51 <212> PRT <213> Homo sapiens <400> 5689 Thr Thr Tyr Cys Phe Pro Leu Phe Gln Gly Asp Ala Val Asp Tyr Gln

10

5003

Lys Gln Leu Lys Gln Met Ile Lys Asp Leu Ala Lys Glu Lys Asp Lys 20 25 30

Thr Glu Lys Glu Leu Pro Lys Met Ser Gln Val Trp Thr Phe Phe Ser 35 40 45

Ala Glu Asn 50

<210> 5690

<211> 35

<212> PRT

<213> Homo sapiens

<400> 5690

Glu Ala Leu Val Asp Phe Leu Tyr Trp Tyr Phe Arg Ser Leu Leu Ser 1 5 10 15

Phe Leu Thr Glu Val Gly Ala Asn Glu Leu Ser Ile Leu Ser Thr Trp
20 25 30

Leu Ile Lys

<210> 5691

<211> 32

<212> PRT

<213> Homo sapiens

<400> 5691

Gly Asn Lys Ser Trp Gly Ser Thr Ala Val Thr Thr Ala Leu Glu Leu
1 5 10 15

Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg Ala Tyr Lys Leu Ser 20 25 30

<210> 5692

<211> 74

<212> PRT

<213> Homo sapiens

<400> 5692

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Gly Thr Leu Leu Lys Phe Leu Cys Lys Leu Gly Leu Phe Phe Ser Leu
Ser Cys Val Ser Arg Thr Val Gly Val Pro Gly Leu Leu Ser Cys Trp
             20
Val Glm Ala Ser Arg Ile Leu Arg Arg Cys Glu Glu Glu Val Arg Lys
Ile Gly Gly Asn Arg Lys Glu Lys Glu Ile Trp Pro Arg Phe Trp Gly
                         55
                                              60
Glu Lys Val Trp Gly Lys Ser Lys Gly Asn
<210> 5693
<211> 50
<212> PRT
<213> Homo sapiens
<400> 5693
Glu Asn Ala Cys Lys Ala Leu Gly Ile Val His Asp Val Asn Thr Gln
Met Leu Leu Lys Ser Ile Asn Val Asn Tyr Phe Leu Ala His Phe Ser
             20
Gly Leu Ile Ser Pro Val Lys Met Ile His Ser Ile Leu Phe Asn Gly
         35
                             40
Phe Met
     50
<210> 5694
<211> 147
<212> PRT
<213> Homo sapiens
<220>
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<222> (35)
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<220>
<221> SITE
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<220>
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<400> 5694
Gly Leu Gly Cys Ala Leu Ala Gln Val Leu Cys Gly Asp Ala Arg Gln
His Ile Leu Leu Arg Asp Asp Thr Leu Ser Gly Gln His Arg Pro Val
             20
Thr Ile Xaa Ser Leu Ala Thr Ser Leu Ser Pro Ala Ser Pro Ser Leu
         35
                             40
Asp Thr Arg Pro Gln Thr Pro Gly Ser Gly Arg Gly Gly Trp Thr Ser
                         55
Leu His Thr Pro Ala Gly Arg Gly Gln Val Pro Arg Ser Pro Met Trp
                     70
                                 75
Arg Ala Gly Pro Gly Ala Ala Gln Ala Gly Gly Xaa Asn Trp Gly Leu
                                     90
                 85
Arg Val Leu Arg Arg Arg Val Lys Ile Ile Lys Gly Ala Thr Glu Ser
                                105
Lys Arg Arg Glu Gly Leu Val Pro Asn Ser Cys Ser Pro Gly Asp Pro
                            120
Leu Val Leu Glu Arg Xaa Pro Pro Arg Trp Ser Xaa Ser Phe Val Pro
    130
Leu Val Arg
145
<210> 5695
<211> 58
<212> PRT
<213> Homo sapiens
<400> 5695
Val Phe Ser Gly Met His Arg Phe Ile Ile Phe Ser Thr Leu Lys Met
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5006

1 5 10 15 Arg Ala Phe Lys Ser Val His Tyr Leu Tyr Ser Pro Val Leu Ser Ile 25 Val Tyr Ile Ile Tyr Met Ile Lys Glu Asn Met His Asn Gln Thr Ser Leu Asn Ile Val Phe Ala Pro Asp Glu Gln 55 <210> 5696 <211> 54 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (22) <223> Xaa equals any of the naturally occurring L-amino acids <400> 5696 Thr Arg Cys Lys Arg Phe Val Asn Ser Leu Ala Pro Lys Leu Ser His 5 Trp Arg Arg Asp Phe Xaa His Tyr Ala Glu Ser Gly Trp Val Glu Phe 25 Arg Thr Ala Thr Leu Val Ala Glu Glu Leu His Gln Leu Gly Tyr Ser 40 Leu Ala Leu Gly Arg Glu 50 <210> 5697 <211> 57 <212> PRT <213> Homo sapiens <400> 5697 Gln Gln Phe Gly Arg Asp Gly Ser Pro Ala Ala Tyr Val Gly Gly Pro 5 Ser Val Gly Leu Arg Val Arg Val Ala Met Ala Val Asp Ile Thr Leu 20 Leu Phe Arg Ala Ser Val Lys Thr Val Lys Thr Arg Asn Lys Arg Trp

5007

35 40 45 Glu Trp Arg Trp Ala Thr Gly Ser Met 55 <210> 5698 <211> 92 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (17) <223> Xaa equals any of the naturally occurring L-amino acids Gln Lys Ser Pro Ser Val Glu Asp Gly Leu Lys Gly Arg Asp Gln Thr 10 Xaa Met Asp Thr Asn Pro Lys Thr Glu Asp Ala Pro Cys Leu Pro His 25 20 Glu Ala Tyr Leu Ser Ala Cys Val Ser Met Ile Ala Gly Ile Glu Leu 40 Leu Gly Thr Ser Arg Met Ile Tyr Leu Ala Ile Cys Phe Leu His Ser 50 55 60 Lys Asn Gln Asn Gly Pro Val Ile Pro Asn Arg Glu Asn Arg Ala Asn 70 65 Ser Leu Phe Ser Pro Leu Pro Ser Glu Ala Ser Phe 85 90 <210> 5699 <211> 122 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (108) <223> Xaa equals any of the naturally occurring L-amino acids <400> 5699

Gly Arg Gly Trp Gly Trp Glu Gly Thr Val Leu Pro Gly Glu Ala Glu

5008

Glu Asp Arg Val Gly Leu Arg Ala Arg Arg Pro Ser Arg Leu Leu 25 Ala Pro Leu Ala Trp Cys Pro Ala Pro Gly Arg Glu Ala Ala Gly Leu 40 Asp Arg Ala Gly Leu Pro Gly Gly Ala Arg Ala Leu Ala Ala Gly Arg Pro Leu Leu Ser Ala Met Ala Gly Leu His Pro Trp Val Ile Phe Ser 65 70 75 Gly Pro Leu Trp Pro Leu Leu Thr Pro Arg Glu Gln Thr Thr Arg Thr 90 Thr Gln Glu Gln Ile Lys Ser Arg Pro Gln Pro Xaa Arg Glu Arg Ala 105 Ser Ile Leu Phe Ala Pro Arg Val Ala Val 115 120 <210> 5700 <211> 82 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (38) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (40) <223> Xaa equals any of the naturally occurring L-amino acids

Ala Glu Leu Thr Pro Ser Ser Lys Leu Thr Val Asp Thr Asp Thr Leu

Thr Pro Ser Ser Thr Leu Cys Glu Asn Ser Val Ser Glu Leu Leu Thr

Pro Ala Lys Ala Glu Xaa Ser Xaa His Pro Asn Ser Asp Phe Phe Gly
35 40 45

Gln Glu Gly Glu Thr Gln Phe Gly Phe Pro Asn Ala Ala Gly Asn His

25

. 5

5009

Gly Ser Gln Lys Glu Arg Asn Leu Ile Thr Val Thr Gly Ser Ser Phe 65 70 75 80

Leu Val

<210> 5701

<211> 316

<212> PRT

<213> Homo sapiens

<220>

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<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5701

Trp Ile Pro Arg Ala Ala Gly Ile Arg His Glu Thr Gly Xaa Asn Asn
1 5 10 15

Thr Lys Ala Phe Glu Val Pro Ala Xaa Ala Asn Phe Leu Asn Ser Asn 20 25 30

Asp Val Phe Val Leu Lys Thr Gln Ser Cys Cys Tyr Leu Trp Cys Gly
35 40 45

Lys Gly Cys Ser Gly Asp Glu Arg Glu Met Ala Lys Met Val Ala Asp 50 55 60

Thr Ile Ser Arg Thr Glu Lys Gln Val Val Glu Gly Gln Glu Pro 65 70 75 80

Ala Asn Phe Trp Met Ala Leu Gly Gly Lys Ala Pro Tyr Ala Asn Thr
85 90 95

Lys Arg Leu Glu Glu Asn Leu Val Ile Thr Pro Arg Leu Phe Glu 100 105 110

Cys Ser Asn Lys Thr Gly Arg Phe Leu Ala Thr Glu Ile Pro Asp Phe 115 120 125

Asn Gln Asp Asp Leu Glu Glu Asp Asp Val Phe Leu Leu Asp Val Trp 130 135 140

5010

Asp Gln Val Phe Phe Trp Ile Gly Lys His Ala Asn Glu Glu Lys 145 150 155 Lys Ala Ala Thr Thr Ala Gln Glu Tyr Leu Lys Thr His Pro Ser 165 170 Gly Arg Asp Pro Glu Thr Pro Ile Ile Val Val Lys Gln Gly His Glu 185 Pro Pro Thr Phe Thr Gly Trp Phe Leu Ala Trp Asp Pro Phe Lys Trp 195 200 Ser Asn Thr Lys Ser Tyr Glu Asp Leu Lys Ala Glu Leu Gly Asn Ser 215 Arg Asp Trp Ser Gln Ile Thr Ala Glu Val Thr Ser Pro Lys Val Asp 230 Val Phe Asn Ala Asn Ser Asn Leu Ser Ser Gly Pro Leu Pro Ile Phe 245 250 255 Pro Leu Glu Gln Leu Val Asn Lys Pro Val Glu Glu Leu Pro Glu Gly 260 265 Val Asp Pro Ser Arg Lys Glu Glu His Leu Ser Ile Glu Asp Phe Thr 280 Gln Ala Phe Gly Met Thr Pro Ala Ala Phe Ser Ala Leu Pro Arg Trp 290 295 300 Lys Gln Gln Asn Leu Lys Lys Glu Lys Gly Leu Phe 305 310 315 <210> 5702 <211> 99 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (58) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (84) <223> Xaa equals any of the naturally occurring L-amino acids

5011

<220>
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<400> 5702

Gly Lys Lys Glu Glu Asn Asn Pro Val Ser Leu Glu Val Gly Val Trp
1 5 10 15

Val Gly Thr Gly Asp Pro Gly Val Val Met Met Lys Thr Arg Ala Gly 20 25 30

Phe Gly Gly Arg Leu Arg Leu Phe Arg Ser Leu Leu Ser Pro Pro Pro 35 40 45

Ser Arg Ser Leu Pro Pro Pro Pro His Xaa Ser Ala Gly Lys Ala Ala 50 55 60

Cys Ala Ala Pro Gly Gly Glu Met Val Asp Ala His Glu Leu Cys Met 65 70 75 80

Trp Phe Leu Xaa Xaa Leu Ser Val Leu Gly Pro Val Phe Gly Gly Thr
85 90 95

Pro Lys Gly

<210> 5703

<211> 292

<212> PRT

<213> Homo sapiens

<400> 5703

Leu Gln Ala Ile Pro Ala Lys Lys Ala Pro Leu Gln Leu Leu Ser Arg
1 5 10 15

Leu Cys Gly Asp His Leu Gln Ala Ile Pro Ala Lys Lys Ala Pro Ala 20 25 30

Gly Gln Glu Pro Gly Thr Pro Pro Ser Ser Pro Leu Ser Ala Glu 35 40 45

Gln Leu Asp Arg Ile Gln Arg Asn Lys Ala Ala Ala Leu Leu Arg Leu 50 55 60

Ala Ala Arg Asn Val Pro Val Gly Phe Gly Glu Ser Trp Lys Lys His 65 70 75 80

Leu Ser Gly Glu Phe Gly Lys Pro Tyr Phe Ile Lys Leu Met Gly Phe

				85					90					95	
Val	Ala	Glu	Glu 100	Arg	Lys	His	Туr	Thr 105	Val	Tyr	Pro	Pro	Pro 110	His	Gln
Val	Phe	Thr 115	Trp	Thr	Gln	Met	Cys 120	Asp	Ile	Lys	Asp	Val 125	Lys	Val	Val
Ile	Leu 130	Gly	Gln	Asp	Pro	Tyr 135	His	Gly	Pro	Asn	Gln 140	Ala	His	Gly	Leu
Cys 145	Pḥe	Ser	Val	Gln	Arg 150	Pro	Val	Pro	Pro	Pro 155	Pro	Ser	Leu	Glu	Asn 160
Ile	Tyr	Lys	Glu	Leu 165	Ser	Thr	Asp	Ile	Glu 170	Asp	Phe	Val	His	Pro 175	Gly
His	Gly	Asp	Leu 180	Ser	Gly	Trp	Ala	Lys 185	Gln	Gly	Val	Leu	Leu 190	Leu	Asn
Ala	Val	Leu 195	Thr	Val	Arg	Ala	His 200	Gln	Ala	Asn	Ser	His 205	Lys	Glu	Arg
Gly	Trp 210	Glū	Gln	Phe	Thr	Asp 215	Ala	Val	Va1	Ser	Trp 220	Leu	Asn	Gln	Asn
Ser 225	Asn	Gly	Leu	Val	Phe 230	Leu	Leu	Trp	Gly	Ser 235	Tyr	Ala	Gln	Lys	Lys 240
Gly	Ser	Ala	Ile	Asp 245	Arg	Lys	Arg	His	His 250	Val	Leu	Gln	Thr	Ala 255	His
Pro	Ser	Pro	Leu 260	Ser	Val	Tyr	Arg	Gly 265	Phe	Phe	Gly	Cys	Arg 270	His	Phe
Ser	Lys	Thr 275	Asn	Glu	Leu	Leu	Gln 280	Lys	Ser	Gly	Lys	Lys 285	Pro	Ile	Asp
Trp	Lys 290	Glu	Leu												
)> 57														
	.> 10														
		omo s	apie	ens											

Phe Leu Arg Cys Val Asp Leu Asp Gly Arg Cys Asp Met Leu Val Phe

10

<400> 5704

5013

Leu Thr Cys Ile Tyr Leu Arg His Cys Tyr Arg Asp Thr Val Val Thr 25 20 Phe Trp Gly Thr Val Phe Gly Glu Arg Gly Val His Leu Asp Leu Cys 40 Gly Thr Val Gln Ile Val Met Trp Leu His Arg Lys Pro Cys Ala Lys 55 Asn Lys Leu His Leu Lys Asn Ile Lys Asn Leu Arg Phe Met Cys Phe 70 75 Leu Ser Phe Ser Leu Arg Lys Gln Lys Ser Ser Gly Leu Arg Tyr Leu 85 90 Thr Leu His Val Lys Thr Leu 100 <210> 5705 <211> 173 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (131) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (146) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (154) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (157) <223> Xaa equals any of the naturally occurring L-amino acids <400> 5705 Ala Ser Met Ala Thr Ala Ala Thr Glu Glu Pro Phe Pro Phe His Gly 10 Leu Leu Pro Lys Lys Glu Thr Gly Ala Ala Ser Phe Leu Cys Arg Tyr

5014

20 25 30

Pro Glu Tyr Asp Gly Arg Gly Val Leu Ile Ala Val Leu Asp Thr Gly
35 40 45

Val Asp Pro Gly Ala Pro Gly Met Gln Val Thr Thr Asp Gly Lys Pro
50 55 60

Lys Ile Val Asp Ile Ile Asp Thr Thr Gly Ser Gly Asp Val Asn Thr 65 70 75 80

Ala Thr Glu Val Glu Pro Lys Asp Gly Glu Ile Val Gly Leu Ser Gly 85 90 95

Arg Val Leu Lys Ile Pro Ala Ser Trp Thr Asn Pro Ser Gly Lys Tyr 100 105 110

His Ile Gly Ile Lys Asn Gly Tyr Asp Phe Tyr Pro Lys Ala Leu Lys
115 120 125

Glu Arg Xaa Gln Lys Glu Arg Lys Glu Lys Ile Trp Asp Pro Val His 130 135 140

Arg Xaa Ala Leu Ala Glu Ala Cys Arg Xaa Gln Glu Xaa Phe Asp Val 145 150 155 160

Ala Asn Asn Gly Ser Ser Gln Ala Asn Lys Leu Ile Lys 165 170

<210> 5706

<211> 77

<212> PRT

<213> Homo sapiens

<400> 5706

Thr Leu Val Ala Glu Ala Thr Met Asp Leu Leu Gly Asp Ser Trp

1 5 10 15

Gly Ser Pro Arg Pro Pro Arg Ala Glu Arg Gly Asp Glu Glu Phe Gly
20 25 30

Thr Val Gly Glu Glu Met Gly Arg Asp Gly Ile Ser Gly Ser Gln Ser
35 40 45

Gly Trp Asp Thr His Ala Gln Leu Leu His Trp Trp Gly Val Gly His 50 60

Thr Leu Phe Leu Thr Gly His Asp Leu Gln Glu Glu Lys
65 70 75

<210> 5707 <211> 53 <212> PRT <213> Homo sapiens <400> 5707 Ile Gln His Leu Met Gln Val Ser Ser Trp Val Val Phe Gln Leu Val Trp Asn Ser Leu Val Leu Thr Gln Thr Gly Ile Lys His Tyr Phe Arg Phe Ser Leu Cys Gln Phe Leu Ser Ser Tyr Asn His Val Asn Gln Asp Val Arg Thr Ser Ile 50

<210> 5708 <211> 64 <212> PRT <213> Homo sapiens

<400> 5708

Gln Pro Gln Cys Pro Ala Ser Leu Thr Ser Ser Phe Leu Cys Pro Leu 5

25

40

Cys Gly Ser Leu Leu Val Ser Ala Phe Ser Met Leu Arg Thr Lys 25 20

Ser Pro Ile His Cys Leu Cys Ser Arg Lys Leu Gln Lys Asn Lys Glu 40

Pro Asn Tyr Gln Asn His Ile Lys Ser Pro Leu Phe Cys Leu Gly Ile 55 60 50

<210> 5709 <211> 39 <212> PRT <213> Homo sapiens

5016

<400> 5709

Ala Ala Phe Phe Leu Leu Arg Leu Ser Leu Phe Val Leu Leu Pro Lys
1 5 10 .15

Arg Gln Leu Pro Glu Phe Gly Cys Leu Asn Tyr Asn Leu Cys Arg Asn 20 25 30

Ser Ser Val Asn Thr Phe Lys 35

<210> 5710

<211> 112

<212> PRT

<213> Homo sapiens

<400> 5710

Gln Leu Gln Leu Phe Cys Leu Gly Phe Gln Leu Phe Leu Val Arg Val
1 5 10 15

Cys Ser Leu Met Ile Trp Ile Tyr Phe Ala Phe Ile Phe Gln Arg Leu 20 25 30

His Leu Ile Pro Gly Lys Ser Ser Ala Arg Gln Val Ser Gly Phe Ser 35 40 45

Leu Leu Ser Phe Asn Pro Ser Asn Thr Ile Phe Val Lys Leu Asp Trp 50 55 60

Trp Cys Phe Ile Gln Leu Ile Tyr Ser Ala Tyr Leu Phe Glu Lys Arg
65 70 75 80

Leu Leu Glu Ile Asp Asp Val Phe Val Pro Val Ile Leu Lys Val Val 85 90 95

Gly Ala Arg Ile Glu Phe His Ser Gly Ile Gly Phe Gly Ser Gly Leu 100 105 110

<210> 5711

<211> 62

<212> PRT

<213> Homo sapiens

<400> 5711

Trp Val Met Glu Tyr Asn Leu Glu Lys Lys Arg Asn Lys Arg Asp Cys

5017

1 5 10 15 Val Ser Pro Cys Cys Pro Gly Trp Ser Arg Thr Ser Glu Leu Lys Gln 25 20 Ser Thr Leu Leu Ser Leu Gln Lys Cys Trp Asp Tyr Arg His Glu Thr 40 Pro Ser Pro Ala Ile Arg Phe Leu Phe Tyr Ile Tyr Met Lys <210> 5712 <211> 194 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (101) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (113) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (173) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (192) <223> Xaa equals any of the naturally occurring L-amino acids <400> 5712 Pro Met Arg Arg Pro Arg Gly Glu Pro Gly Pro Arg Ala Pro Arg Pro 10 Thr Glu Gly Ala Thr Cys Ala Gly Pro Gly Glu Ser Trp Ser Pro Ser 25 Pro Asn Ser Met Leu Arg Val Leu Leu Ser Ala Gln Thr Ser Pro Ala 35 40 Arg Leu Ser Gly Leu Leu Ile Pro Pro Val Gln Pro Cys Cys Leu 50 55

5018

Gly Pro Ser Lys Trp Gly Asp Arg Pro Val Gly Gly Pro Ser Ala 70 Gly Pro Val Gln Gly Leu Gln Arg Leu Leu Glu Gln Ala Lys Ser Pro 85 90 Gly Glu Leu Leu Xaa Trp Leu Gly Gln Asn Pro Ser Lys Val Arg Ala 100 105 Xaa His Tyr Ser Val Ala Leu Arg Arg Leu Gly Gln Leu Leu Gly Ser 120 Arg Pro Arg Pro Pro Pro Val Glu Gln Val Thr Leu Gln Asp Leu Ser 130 135 Gln Leu Ile Ile Arg Asn Cys Pro Ser Phe Asp Ile His Thr Ile His 145 150 Val Cys Leu His Leu Ala Val Leu Leu Gly Phe Pro Xaa Asp Gly Pro 165 170 Leu Val Cys Ala Leu Glu Gln Glu Pro Lys Leu Arg Leu Leu Arg Xaa 185 190 His Leu <210> 5713 <211> 275 <212> PRT <213> Homo sapiens

<212> PRT
<213> Homo sapiens

<220>
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<222> (22)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (47)
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<220>
<221> SITE
<222> (47)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (101)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5713
Arg Trp Ala Thr Tyr Gly Arg Thr Gly Gly Leu Pro Asn Val Gly Lys

Ser Ser Thr Ile Asn Xaa Ile Met Gly Asn Lys Lys Val Ser Val Ser Ala Thr Pro Gly His Thr Lys His Phe Gln Thr Leu Tyr Val Xaa Pro Gly Leu Cys Leu Cys Asp Cys Pro Gly Leu Val Met Pro Ser Phe Val Ser Thr Lys Ala Glu Met Thr Cys Ser Gly Ile Leu Pro Ile Asp Gln Met Arg Asp His Val Pro Pro Val Ser Leu Val Cys Gln Asn Ile Pro Arg His Val Leu Xaa Ala Thr Tyr Gly Ile Asn Ile Ile Thr Pro Arg Glu Asp Glu Asp Pro His Arg Pro Pro Thr Ser Glu Glu Leu Leu Thr Ala Tyr Gly Tyr Met Arg Gly Phe Met Thr Ala His Gly Gln Pro Asp Gln Pro Arg Ser Ala Arg Tyr Ile Leu Lys Asp Tyr Val Ser Gly Lys Leu Leu Tyr Cys His Pro Pro Pro Gly Arg Asp Pro Val Thr Phe Gln His Gln His Gln Arg Leu Leu Glu Asn Lys Met Asn Ser Asp Glu Ile Lys Met Gln Leu Gly Arg Asn Lys Lys Ala Lys Gln Ile Glu Asn Ile Val Asp Lys Thr Phe Phe His Gln Glu Asn Val Arg Ala Leu Thr Lys Gly Val Gln Ala Val Met Gly Tyr Lys Pro Gly Ser Gly Val Val Thr Ala Ser Thr Ala Ser Ser Glu Asn Gly Ala Gly Lys Pro Trp Lys Lys His Gly Asn Arg Asn Lys Lys Glu Lys Ser Arg Arg Leu Tyr Lys His Leu Asp Met

5020

75 -

275

Ala Val Arg Ala Gly Leu Phe Gln Lys Val Gly Pro Cys Pro

70

<210> 5715 <211> 47 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5715

Gly Gln Val Ala Ala Leu Ser Pro Arg Val Val Pro Gly Arg Leu Arg
1 5 10 15

Ser Ser Pro Lys Arg Gly Cys Ser Ser Gly Lys Gln Val Asn Ser Trp
20 25 30

Tyr Phe Thr Phe Leu Gly Asn Thr Xaa Asn Glu Asp Leu Gln Leu 35 40 45

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<210> 5716
<211> 71
<212> PRT
<213> Homo sapiens
<400> 5716
Pro Lys Thr Val Ser Lys Met His Ile Lys Ser Ile Ile Leu Glu Gly
                                     10
Phe Lys Ser Tyr Ala Gln Arg Thr Glu Val Asn Gly Phe Asp Pro Leu
            20
                                25
Phe Asn Ala Ile Thr Gly Leu Asn Gly Ser Gly Lys Ser Asn Ile Leu
                             40
Asp Ser Ile Cys Phe Leu Leu Gly Ile Ser Asn Leu Ser Gln Val Arg
                         55
Ala Ser Lys Phe Thr Arg Phe
<210> 5717
<211> 52
<212> PRT
<213> Homo sapiens
<400> 5717
Pro Thr Tyr Gly Cys Trp Asp Asn Ser Pro Ser Arg Met Tyr Cys Cys
                                     10
Ser Ala Gln Asp Ser Lys Met Asp Tyr Lys Arg Arg Phe Leu Leu Gly
                                 25
Gly Ser Lys Gln Lys Val Gln Gln His Ser Asn Thr Arg Cys Leu Ser
                                                45
Trp Ala Glu His
     50
<210> 5718
<211> 136
<212> PRT
<213> Homo sapiens
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<220> <221> SITE

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<222> (53)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5718
Phe Gly Thr Lys Glu Thr Val Asn Lys Asp Ile Cys Glu Lys Gly Thr
Ile Gln Gln Met Ile Gly Ile Phe Lys Asn Ile Ile Ser Lys Pro Asn
Glu Lys Glu Glu Ala Ile Val Leu Glu Ile Gln Ser Asp Ile Leu Leu
                                                45
Ile Leu Ser Gly Xaa Cys Glu Asn His Ile Gln Arg Lys Glu Ile Phe
Gly Thr Glu Gly Val Asp Ile Val Leu His Val Met Lys Thr Asp Pro
Arg Lys Leu Gln Ser Gly Leu Gly Tyr Asn Val Leu Leu Phe Ser Thr
                 85
                                    90
Leu Asp Ser Ile Trp Cys Cys Ile Leu Gly Cys Tyr Pro Ser Glu Asp
                   105
100
Tyr Phe Leu Glu Lys Glu Gly Ile Phe Leu Leu Leu Asp Leu Leu Ala
                           120
Leu Asn Gln Lys Asn Ser Val Ile
    130
                       135
<210> 5719
<211> 67
<212> PRT
<213> Homo sapiens
<400> 5719
Lys Ser Leu Gly Glu Lys Lys Ser His Thr Val Phe Leu Ala Ile Arg
                                    10
Ile Met Lys Thr Asn Phe Gly Glu Cys Glu Gln Leu Arg Gln Thr Gly
            20
                                25
His Arg Leu Gln Gly Leu Thr Ser Leu Thr Val Thr Asp Asn Leu Gly
        35
Met Asp Pro Thr Ala Asp Val Ser Lys Gly His Arg Gly Glu Leu Val
```

55

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Thr Ser Asn
 65
<210> 5720
<211> 47
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (4)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5720
Leu Ile Arg Xaa Gln Ser Trp Ser Ser Thr Ala Val Ala Ala Leu
                                     10
Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg Gly Leu Leu
Gln Lys Gly Tyr Ile Ile Leu Ser Leu Val Ile Gln Arg Tyr Ser
         35
                             40
<210> 5721
<211> 100
<212> PRT
<213> Homo sapiens
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Arg Cys Trp Glu Gly Ser Thr Pro Leu Gly Gly Cys Gly Gly Ser

5024 65 70 75 80 Ala Pro Ser Ser Ile Phe Lys Ala Ser Ser Val Val Leu Pro Ile Ser 85 90 Leu Ile Phe Leu 100 <210> 5722 <211> 63 <212> PRT <213> Homo sapiens <400> 5722 Ala Arg Ala Glu Ile Gly Phe Leu Glu Gly Ser Ser Gly Lys Trp Pro Asp Ser Ile Leu Arg Leu Cys Met Thr Ser Arg Tyr Tyr Pro Val Gly 20 25 30 Val Pro Trp Gly Ala Met Ala Ala Ile Arg Cys Arg Leu Gly Tyr Ile Lys Trp Ala Glu Gly Thr Cys Leu Gly Arg Trp Gly Gly Leu Gln 55 <210> 5723 <211> 38 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (5) <223> Xaa equals any of the naturally occurring L-amino acids <400> 5723 Phe Met Ile Leu Xaa Tyr Lys Ser Tyr Glu Phe Leu Glu Leu Gln Lys Trp Pro Gly Val Val Ala His Thr Val Asn Pro Gly Thr Leu Gly Gly

25

Gln Gly Arg Arg Thr Thr 35

5025

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<211> 95
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (37)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (73)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (89)
<223> Xaa equals any of the naturally occurring L-amino acids
Asp Glu Glu Val Tyr Ile Trp Val Ser Phe Leu His Pro Val Glu Ser
                  5
Ser Arg Lys Ser Gly Pro Ile Leu Ser Cys Ser Phe Thr Glu Lys Leu
             20
                                 25
Leu Ser Pro Phe Xaa Phe Leu Leu Asn Glu Leu Trp Ser Pro Asp Leu
Leu Cys Lys Gly Gln Pro Asp Pro Pro Phe Met His Ser Pro Ser Glu
                                              60
     50
                         55
Ser Leu Leu Val Ala Trp Leu Glu Xaa Ser Gly Ile Phe Glu Phe Trp
 65
                     70
                                          75
Pro Leu Gln Leu Ser Trp Gly Pro Xaa Gly Gly Leu Pro Pro Leu
                 85
                                      90
<210> 5725
<211> 80
<212> PRT
<213> Homo sapiens
<400> 5725
His Glu Gly Val Ser Thr Ala Pro Ser Gln Lys Phe Tyr Ile Phe Tyr
                  5
```

<210> 5724

5026

Arg Gly Lys Lys Thr Leu Tyr Thr Met Ala Arg Pro Phe Leu Ser Gln 20 Ala Gly Pro Ala Gly Glu Glu Leu Gln 40 Eu Leu Ser Arg Leu Lys Ala Gly Phe Val Glu Glu Leu Gln Leu Leu Leu Leu Ser Arg Ala Asn Pro Val Glu Ile Gln Gly Glu Cys Lys Leu Ala Ser Leu Asp Arg Asp Gln Ser 80

<210> 5726 <211> 51 <212> PRT <213> Homo sapiens

<400> 5726

Ile Gln Ile Asn Phe His Ala His Leu Tyr Leu Lys Asp Ser Asp Phe 1 5 10 15

Ser Leu Ser Gln Leu Arg Asn Ile Arg Leu Asn Pro Ala Val Leu Gln
20 25 30

Met Phe Leu Leu Arg Leu Lys His Gln Leu Ile Asn Arg Tyr Leu Phe 35 40 45

Ile Phe Asn 50

<210> 5727 <211> 38 <212> PRT <213> Homo sapiens <220>

<221> SITE <222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5727

Pro Xaa Ser Ser Trp Asp Tyr Arg His Thr Pro Pro Cys Pro Ala His 1 5 10 15

5027

Phe Cys Ile Phe Ser Arg Asp Gly Val Ser Pro Cys Trp Pro Gly Trp 20 25 30

Leu His Leu Leu Thr Leu
35

<210> 5728

<211> 112

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (109)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5728

Ser Lys Asp Gly Ala Xaa Cys Xaa Lys Ser Lys Asp Leu Leu Lys Gln 1 5 10 15

Arg Tyr Leu Phe Ala Lys Ala Gly Tyr Pro Leu Arg Arg Ser Gln Ser 20 25 30

Leu Pro Thr Thr Leu Leu Ser Pro Val Arg Val Val Ser Ser Val Asn 35 40 45

Val Arg Leu Ser Pro Gly Lys Glu Thr Arg Cys Ser Pro Pro Ser Phe 50 55 60

Thr Tyr Lys Tyr Thr Pro Glu Glu Glu Glu Glu Leu Glu Lys Arg Val
65 70 75 80

Met Glu His Asp Gly Gln Ser Leu Val Lys Ser Thr Ile Phe Ile Ser 85 90 95

Pro Ser Ser Val Lys Lys Glu Glu Ala Pro Gln Ser Xaa Ala Pro Arg 100 105 110 <210> 5729 <211> 64

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<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (29)
<223> Xaa equals any of the naturally occurring L-amino acids
Ile Leu Phe Ala Pro Pro Arg Phe Ala Pro Glu Arg Gln Ser Ser
Arg Gly Pro Leu Arg His Arg Tyr Ser Ser Gln Ile Xaa Thr His Phe
             20
                                 25
Thr Ala Thr Pro Gly Ile Leu Pro Pro Leu Arg Asp Ser Ser Leu Pro
                            40
                                                45
Val Ser Asp Ala Val Pro Arg Leu Ser Pro Gly Ile Ser His Leu Thr
     50
                         55
<210> 5730
<211> 63
<212> PRT
<213> Homo sapiens
<400> 5730
Ser Leu Ser Ala Pro Glu Leu Lys Ser Leu Ala Lys Thr Phe His Leu
                  5
                                     10
                                                         15
Val Asn Pro Asn Gly Gln Lys Gln Gln Leu Val Asp Ala Phe Leu Lys
Leu Ala Lys Gln Arg Ser Val Cys Thr Trp Gly Lys Asn Lys Pro Gly
Ile Gly Ala Val Ile Leu Lys Arg Phe Cys Trp Leu Leu Cln
     50
                        55
```

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<210> 5731
<211> 94
<212> PRT
<213> Homo sapiens
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<221> SITE
<222> (40)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (64)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5731
Glu Met Ser His Lys Glu Arg His Phe Glu Leu Leu Lys Ser Cys
                  5
                                                          15
Lys Val Ser Tyr Pro Gly Thr Val Phe Leu Asn Gly Asn Val Met Ala
Glu Ser Cys Ser Ile Thr Thr Xaa Gly Leu Val His Gln Val Pro Thr
                             40
His Pro Leu Gln Ala Leu Gly Ser Gly Met Cys Pro Ser Trp Lys Xaa
                         55
Gln Val Leu Trp Leu Cys Trp Phe Trp Leu Ser Phe Ser Val Thr Phe
 65
                     70
                                         75
                                                              80
Gln Tyr Leu Ser Pro Ser Arg Tyr Cys Lys Pro Leu Ser Asn
                 85
                                     90
<210> 5732
<211> 71
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids
Gly Xaa Gly Phe Trp Pro Ala Ser Val Ala Arg Val Leu Thr Gly Val
```

Thr Asn His Leu Ala Phe Asn Thr Lys Lys Pro His Ile Leu Arg Asn 20 25 30

Pro Arg Thr Gln Lys Val Leu Gly Phe Val Ser Asp Ala Glu Gly Trp 35 40 45

Val Glu Ser Met Lys Pro Thr Gln Arg Asp Asp Ser Thr Ile Cys Ser 50 55 60

Ile Gly Trp Lys Trp Arg Gly
65 70

<210> 5733

<211> 85

<212> PRT

<213> Homo sapiens

<400> 5733

His Gln Trp Arg Gly Ala Leu His Ile Leu Cys Gln Gln Gln His Ser

1 5 10 15

His Thr Arg Trp Phe Trp Ala Leu Cys Arg Leu Val Leu Val Gly Asp
20 25 30

Thr Gln Gln His Pro Cys Trp Thr Gly Leu Ile Val Arg Ser Leu Arg
35 40 45

Pro Thr Leu Gln Ser Glu Met Leu Leu Gly Gly Gly Lys Glu Asn Thr
50 55 60

Phe Phe Pro Pro Cys Gly Asn Glu Glu Arg Gly Lys Trp Ile Gly Lys 65 70 75 80

Pro Lys Cys Glu Ser

85

<210> 5734

<211> 123

<212> PRT

<213> Homo sapiens

<400> 5734

Phe Ser Leu Thr Leu Phe Pro Pro Pro Thr Cys His Gln Ala Ser Pro 1 5 10 15

Lys Pro Thr Ala Met Gly Pro Ser Gly Pro Phe Arg Asp Trp Ser Glu
20 25 30

Ile Trp Val Trp Arg Gly Arg Arg Gln Gly Gly Ala Ser His Ser 40 Arg Thr Val Asp Glu Arg Asp Arg Leu Arg Arg Lys Trp Ala Leu Arg Leu Gln Gly Trp Lys Ser Leu Pro Thr Ser His Ser Pro Ala Pro Ile 70 Tyr Leu Val Leu Pro Arg Gln Ile Gly Pro Phe Glu Ala Pro Glu Cys 90 85 Pro Gln Met Val Lys Thr Gln Phe Ser Leu Trp Glu Pro Lys Pro Gly 105 Cys Ile Gly Gly Gln Asp Pro Asp His Ser Leu 120 115 <210> 5735 <211> 42 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (20) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (32) <223> Xaa equals any of the naturally occurring L-amino acids :220> :221> SITE :222> (34) 223> Xaa equals any of the naturally occurring L-amino acids 400> 5735 ys Cys Pro Ile Ala Ser Glu Ala Pro Trp Thr Ile Thr Asp Ala Glu 10 u Arg Val Xaa Leu Thr Val Glu Asp Ser Gln Pro Tyr Glu Asp Xaa 20 25 u Xaa Gly Arg Ser Ser Leu Ser Lys Val 35 40

<210> 5736

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<211> 34
<212> PRT
<213> Homo sapiens
<400> 5736
Tyr Pro Thr His Tyr Arg Glu Ser Trp Tyr Ala Cys Arg Tyr Arg Ser
Gly Ile Pro Gly Ser Thr His Ala Ser Gly Ile Leu Gly Leu Arg Phe
             20
Phe Met
<210> 5737
<211> 202
<212> PRT
<213> Homo sapiens
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<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 5737
Tyr Ser Arg Pro Gln Ala His Ser Ser Ala Ser Gly Gly Ile Arg Arg
Ser Ser Ser Met Ser Tyr Val Asp Gly Phe Ile Gly Thr Trp Pro Lys
             20
Glu Lys Arg Ser Ser Val His Gly Val Ser Phe Asp Ile Ser Phe Asp
                             40
Lys Glu Asp Ser Val Gln Arg Ser Thr Pro Asn Arg Gly Ile Thr Arg
                         55
Ser Ile Ser Asn Glu Gly Leu Thr Leu Asn Asn Ser His Val Ser Lys
65
                     70
                                         75
His Ile Arg Lys Asn Leu Ser Phe Lys Pro Ile Asn Gly Glu Glu Glu
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85 90 95

Ala Glu Ser Ile Glu Glu Glu Leu Asn Ile Asp Ser His Ser Asp Leu 100 105 110

Lys Ser Cys Val Pro Leu Asn Thr Asn Glu Leu Asn Ser Asn Glu Asn 115 120 125

Ile His Tyr Lys Leu Pro Asn Gly Ala Leu Gln Asn Arg Ile Leu Leu 130 135 140

Asp Glu Phe Gly Asn Gln Ile Glu Thr Pro Ser Ile Glu Glu Ala Leu 145 150 155 160

Gln Ile Ile His Asp Thr Xaa Lys Ser Pro His Thr Pro Gln Pro Asp 165 170 175

Gln Ile Ala Asn Gly Phe Phe Leu His Ser Gln Gly Met Ser Ile Leu 180 185 190

Asn Ser Xaa Ile Lys Leu Asn Gln Ser Ser 195 200

<210> 5738

<211> 35

<212> PRT

<213> Homo sapiens

<400> 5738

Gly Arg Ile Ser His Val Gly Ser Arg Thr Glu Gly Ser Arg Leu Pro 1 5 10 15

Ala Gln Cys Ser Leu Cys Ser Thr Met Leu Pro Leu Val Gly Glu Thr
20 25 30

Gly Gln Lys

35

<210> 5739

<211> 35

<212> PRT

:213> Homo sapiens

:400> 5739

In Trp Gly Lys Lys Ala Val Ser Arg Gly Phe Ser Lys Gly Asn Thr

5034

Gln Met Ala Lys Lys His Met Gln Arg Cys Ser Met Phe Phe Val Ile 20 25 30

Arg Lys Met

<210> 5740

<211> 220

<212> PRT

<213> Homo sapiens

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<222> (65)

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<223> Xaa equals any of the naturally occurring L-amino acids

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<222> (117)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5740

Glu Lys Thr Ile Leu Thr Gly Glu Cys Cys Tyr Leu Asn Pro Leu Leu
1 5 10 15

Arg Arg Ile Ile Arg Phe Thr Gly Val Phe Ala Phe Gly Leu Phe Ala 20 25 30

Thr Asp Ile Phe Val Asn Ala Gly Gln Val Val Thr Gly His Leu Thr 35 40 45

Pro Tyr Phe Leu Thr Val Cys Lys Pro Asn Tyr Thr Ser Ala Asp Cys 50 55 60

Xaa Ala His His Gln Phe Ile Asn Asn Gly Asn Ile Cys Thr Gly Asp 65 70 75 80

Arg Glu Val Ile Glu Lys Ala Arg Arg Ser Phe Pro Ser Lys His Xaa 85 90 95

Ala Leu Ser Ile Tyr Ser Ala Leu Tyr Ala Thr Met Tyr Ile Thr Ser 100 105 110

Thr Ile Lys Thr Xaa Ser Ser Arg Leu Ala Lys Pro Val Leu Cys Leu

5035

120 125 115 Gly Thr Leu Cys Thr Ala Phe Leu Thr Gly Leu Asn Arg Val Ser Glu 135 Tyr Arg Asn His Cys Ser Asp Val Ile Ala Gly Phe Ile Leu Gly Thr 150 155 Ala Val Ala Leu Phe Leu Gly Met Cys Val Val His Asn Phe Lys Gly 170 Thr Gln Gly Ser Pro Ser Lys Pro Lys Pro Glu Asp Pro Arg Gly Val 180 185 Pro Leu Met Ala Phe Pro Arg Ile Glu Ser Pro Leu Glu Thr Leu Ser 200 Ala Gln Asn His Ser Ala Ser Met Thr Glu Val Thr 215 <210> 5741 <211> 38 <212> PRT <213> Homo sapiens <400> 5741 Lys Thr Phe Arg Leu Phe Leu Ala Ile Ser Leu Thr Phe Ala Thr Ile 10 Val Thr Lys His Ser Leu Tyr Met His Pro Pro Asn Val Ser Cys Leu 25 Phe Ile Gly Lys Leu Tyr 35 <210> 5742 <211> 59 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (14) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE

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<400> 5742
Trp Gln Gly His Trp Pro Gly Pro His Leu Pro Ser Ser Xaa Leu Pro
                                      10
Lys Arg Lys Leu Pro Trp Xaa Ser Arg Pro Leu Asn Ala Asn Ser Trp
             20
                                 25
Leu Pro Val Ser Gly Trp Val Asp Leu Thr Trp Pro Leu Leu Ala Gly
                              40
Pro Cys Ser Phe Leu Thr Cys Arg Xaa Glu Gln
     50
                         55
<210> 5743
<211> 122
<212> PRT
<213> Homo sapiens
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<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5743
Xaa Leu Val Ala Gly Asp Ile Val Leu Asp Lys Leu Gly Glu Arg Leu
                                     10
Ala Ile Leu Leu Lys Val Arg Asp Met Val Ser Ser His Val Glu Arg
             20
                                 25
Val Phe Gln Ile Tyr Glu Gln His Ala Asp Thr Val Gly Ile Asp Ala
         35
                             40
                                                  45
Val Leu Gln Pro Ser Ala Val Ser Pro Ser Val Ala Asp Met Leu Glu
     50
Trp Leu Gln Asp Ile Glu Arg His Tyr Arg Lys Ser Tyr Leu Lys Arg
                     70
                                         75
Lys Tyr Leu Leu Ser Ser Ile Gln Trp Gly Asp Leu Ala Asn Ile Gln
                 85
                                     90
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5037

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Ala Leu Pro Lys Ala Trp Asp Arg Ile Ser Lys Asp Glu His Gln Asp
                           105
           100
Leu Val Gln Asp Ile Leu Leu Asn Val Ser
       115
                            120
<210> 5744
<211> 66
<212> PRT
<213> Homo sapiens
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<220>
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<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
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<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5744
Thr Xaa Asn Phe His Xaa Arg Xaa Glu Val Ile Asn Ser Gly His Gln
                                     10
Arg Ile Leu Ala Ser Ala Leu Gly Leu Val Met Tyr Gln Val Trp Tyr
Tyr Phe Leu Phe Val Leu Ile Arg Phe Leu Pro Ser Ser Ile Trp
         35
                             40
                                                 45
Glu Ile Lys Thr Gly Leu Leu Ala Trp Leu Val Thr Glu Arg Gln Ala
  50
                         55
His Ser
 65
<210> 5745
<211> 59
<212> PRT
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<213> Homo sapiens

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<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
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<222> (41)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5745
Ser Phe Pro Pro Arg Asn Ser Pro Arg Leu Lys Thr Xaa Leu His Tyr
                                     10
Gln Val Met Arg Cys Glu Gly Gly Ser Leu Lys Val Glu Asn Leu Gly
             20
                                 25
Val Glu Ala Thr Val Pro Ser Trp Xaa Leu Ser Phe Leu Ile Cys Glu
Met Arg Val Asn Val Lys Leu Leu Cys Lys Met
                         55
<210> 5746
<211> 117
<212> PRT
<213> Homo sapiens
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<222> (41)
<223> Xaa equals any of the naturally occurring L-amino acids
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<222> (111)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5746
Lys Ala Thr Leu Leu Ser Cys Glu Ala His His Leu Ser Leu Ala Leu
                  5
                                     10
Gly Ser Ser Cys Arg Arg Ser Leu Gly Pro Leu Met His Pro Phe Gln
             20
Gln Thr Phe His Phe Gly Val Arg Xaa Asp Phe Leu Ala Leu Gln Gly
         35
                             40
                                                  45
```

5039

Ala Pro Ala Ser Ser Cys Ile Pro Cys Pro Gly Pro Gly Ile Ser Pro 50 55 60

Phe Ser Lys Glu Pro Arg Val Leu Leu Leu Ala Ser Leu Lys Arg Val 65 70 75 80

Arg Pro Gly Cys Gln Ala Gly Ser Pro Arg Ser Phe Tyr Trp Glu Val 85 90 95

Leu Glu Ser Glu Ala Trp Val Pro Gly Gly Cys Gln Val Gly Xaa Val
100 105 110

Leu Leu Gly Cys Cys 115

<210> 5747

<211> 52

<212> PRT

<213> Homo sapiens

<400> 5747

Leu Thr Leu Thr Lys Gly Asn Lys Ser Trp Gly Ser Thr Ala Val Thr
1 5 10 15

Ala Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg
20 25 30

Gly Leu Val Arg Val Phe Phe Phe Phe Phe Phe Lys Thr Asn Thr Phe 35 40 45

Ile Ala His Leu 50

<210> 5748

<211> 270

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (266)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5748

Thr Leu Glu Gln Glu Gln Glu Ala Leu Val Asn Arg Leu Trp Lys Arg
1 5 10 15

5040

Met Asp Lys Leu Glu Ala Glu Lys Arg Ile Leu Gln Glu Lys Leu Asp 25 Gln Pro Val Ser Ala Pro Pro Ser Pro Arg Asp Ile Ser Met Glu Ile 40 Asp Ser Pro Glu Asn Met Met Arg His Ile Arg Phe Leu Lys Asn Glu Val Glu Arg Leu Lys Lys Gln Leu Arg Ala Ala Gln Leu Gln His Ser Glu Lys Met Ala Gln Tyr Leu Glu Glu Glu Arg His Met Arg Glu Glu 90 Asn Leu Arg Leu Gln Arg Lys Leu Gln Arg Glu Met Glu Arg Arg Glu 100 110 Ala Leu Cys Arg Gln Leu Ser Glu Ser Glu Ser Ser Leu Glu Met Asp 120 Asp Glu Arg Tyr Phe Asn Glu Met Ser Ala Gln Gly Leu Arg Pro Arg 135 Thr Val Ser Ser Pro Ile Pro Tyr Thr Pro Ser Pro Ser Ser Ser Arg 145 150 155 Pro Ile Ser Pro Gly Leu Ser Tyr Ala Ser His Thr Val Gly Phe Thr 165 170 Pro Pro Thr Ser Leu Thr Arg Ala Gly Met Ser Tyr Tyr Asn Ser Pro 185 Gly Leu His Val Gln His Met Gly Thr Ser His Gly Ile Thr Arg Pro 195 200 Ser Pro Arg Arg Ser Asn Ser Pro Asp Lys Phe Lys Arg Pro Thr Pro 210 215 Pro Pro Ser Pro Asn Thr Gln Thr Pro Val Gln Pro Pro Pro Pro 230 235 Pro Pro Pro Met Gln Pro Thr Val Pro Ser Ala Ala Thr Ser Gln 245 250 Pro Thr Pro Ser Gln His Ser Ala His Xaa Ser Ser Gln Pro 260 265 270

<210> 5749

5041

<211> 67

<212> PRT

<213> Homo sapiens

<400> 5749

Val Ile Gln Val Tyr Thr Ser Val Lys Ile Gln Arg Met Tyr Thr Gln 1 5 10 15

Asp Leu Cys Ile Ser Leu Tyr Val Asn Val Thr Leu Lys Cys Cys Lys
20 25 30

Gln Ile Leu Asn Lys Tyr Thr His Ala Lys Val Phe Lys Arg Lys Tyr 35 40 45

Trp Cys Leu Gln Asn Lys Asn Phe Phe Ser Ile Phe Cys Gly Lys Ile 50 55 60

Tyr Ile Ile 65

<210> 5750

<211> 152

<212> PRT

<213> Homo sapiens

<400> 5750

Pro Arg Gly Ser Val Gly Val Ser Ser Glu Leu His Gln Phe Pro Gly
1 5 10 15

Tyr Leu Gly Pro Trp Ile Thr Leu Arg Ser Ala Thr Cys Gln Leu Ile 20 25 30

Ser Lys Leu Leu Leu Ala Gly Leu Arg Leu Ser Arg Glu His Leu Gly 35 40 45

Glu Pro Cys Ala Ala Gly Trp Thr Pro Ala His Leu Ala Asp Tyr Ser 50 55 60

Cys Phe Cys Ser Pro Val Cys Pro Gln Glu Val Arg Ala Cys Leu Leu 65 70 75 80

Phe Leu His Asp His Gly Arg Arg Gly Thr Asn Met Arg Val Leu Ala 85 90 95

Ser Pro Gln Trp Trp Leu Pro Arg Ala Gly Glu Thr Leu Gly Glu Gly 100 105 110

Leu Gly Gln Gly Pro Leu Ser Leu Ala Ala Thr Ala Trp Val Asn Cys 115 120 125

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Leu Ala Arg Leu Ala Ala Arg Ala Gln Lys Ala Glu Ala Leu Pro Ala
     130
                        135
                                            140
 Phe Ser Ser His Pro Ala Pro Met
 145
                    150
 <210> 5751
 <211> 98
 <212> PRT
 <213> Homo sapiens
<400> 5751
Arg Val Ala Val Glu Asp Val Ser Met Val Lys Gln Lys Asn Thr Thr
                                     10
Phe Leu Trp Lys Glu Ile Leu Lys Gln Gln Ser Gln Ile Val Lys Met
             20
Leu Arg Ile Ser Val Pro Pro Leu Thr Ser Val Ser Val Lys Pro Gln
                     40 45
Leu Gly Cys Thr Glu Asp Tyr Leu Leu Ser Lys Leu Pro Ser Asp Gly
     50
                        55
Lys Glu Val Pro Phe Val Val Arg Lys Phe Lys Leu Ser Tyr Ile Gln
 65
                     70
                                        75
Pro Arg Thr Gln Glu Thr Pro Ser His Leu Glu Glu Leu Glu Gly Ser
                                    90
Ala Gly
<210> 5752
<211> 92
<212> PRT
<213> Homo sapiens
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<222> (81)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5752
Asp Arg Lys Arg Asp Leu Thr Ser Pro Trp Arg Leu Ser Val Ser Ala
                 5
                                    10
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5043

Glu Ala Leu Gly Leu Ala Leu Gly Leu Cys Ile Pro Glu Ser Cys Cys 25 20 Met Pro Gly Ile Gly Phe Gln Ala Cys Leu Ser Phe Ser Ser Leu Pro 40 35 Gly Ile Ala Met Arg Trp Glu Gly Glu Pro Ser Ser Pro Ala Glu Ile 60 Pro Ala Ala Trp Gln Pro Ala Gly Gly Ser Trp Ile Pro Arg Gly Asp 75 70 Xaa Thr Asp Ala Leu Trp Phe His Val Ile Trp Ile 85 <210> 5753 <211> 88 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (49) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (60) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (74) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (81) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (84) <223> Xaa equals any of the naturally occurring L-amino acids <400> 5753 Pro Arg Arg His Arg Val Pro Gly Ser Gly Phe Ala Phe Pro Lys Asn

Glu Asn Lys Leu Leu Pro Lys Glu Leu Val Phe Pro Leu Leu Phe Ser 20 25 Asn Cys Glu Gly Pro Arg Gly Val Glu His Gly Ala Pro His Lys Pro Xaa Gly Trp Cys Pro Gly Tyr Gln Gly His Ala Xaa Gly Leu Asp Asp Leu Ser Leu Gln Gly Ala Leu Val Val Xaa Asn Trp Leu Lys Val Thr 65 70 75 Xaa Glu Gly Xaa Cys Gly Asn Trp 85 <210> 5754 <211> 28 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (16) <223> Xaa equals any of the naturally occurring L-amino acids Lys Ile Phe Ser Phe Ala Val Pro Asp Pro Leu Met Pro Asp Pro Xaa 10 Lys Gln Pro Lys Asn Gln Leu Asn Pro Ile Gly Ser 20 <210> 5755 <211> 75 <212> PRT <213> Homo sapiens <400> 5755 Arg Met Asn Ile Cys Val Ser Val Cys Val Ser Glu Leu Cys Asp Phe Ile Arg Gly Ile Cys Gln Phe Ser His Cys Gly Ser Phe Ser Asp Phe 25 Ala Cys Ser Ser Ser Lys Glu Ala Arg Ser Phe Ala Asp Phe Thr Ile

40

5045

Pro Gln Thr Cys Lys Phe Leu Thr Ser Ser Lys Leu Ala Leu Ala Leu 55 60 50 Ser Ser Thr Phe Pro Phe Lys Ser Asn Leu Cys 65 70

<210> 5756 <211> 540 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (320) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (508) <223> Xaa equals any of the naturally occurring L-amino acids <400> 5756 Thr Met Asp Glu Glu Glu Lys Asp Asp Gly Glu Ala Lys Glu Ile Ser 5 10 Thr Pro Thr His Trp Ser Lys Leu Asp Pro Lys Thr Met Lys Val Asn 25 Asp Leu Arg Lys Glu Leu Glu Ser Arg Ala Leu Ser Ser Lys Gly Leu 40

Lys Ser Gln Leu Ile Ala Arg Leu Thr Lys Gln Leu Lys Val Glu Glu 50 55

Gln Lys Glu Glu Gln Lys Glu Leu Glu Lys Ser Glu Lys Glu Glu Asp

Glu Asp Asp Asp Arg Lys Ser Glu Asp Asp Lys Glu Glu Glu Glu Arg 90 85

Lys Arg Gln Glu Glu Ile Glu Arg Gln Arg Arg Glu Arg Arg Tyr Ile 100 105

Leu Pro Asp Glu Pro Ala Ile Ile Val His Pro Asn Trp Ala Ala Lys 115 120

Ser Gly Lys Phe Asp Cys Ser Ile Met Ser Leu Ser Val Leu Leu Asp 140 130 135

Туг 145	Arg	Leu	Glu	Asp	Asn 150		Glu	His	Ser	Phe 155		Val	Ser	Leu	Phe 160
Ala	Glu	Leu	Phe	Asn 165	Glu	Met	Leu	Glr	170		Phe	Gly	Val	Arg 175	Ile
Tyr	Lys	Ser	Leu 180		Ser	Leu	Pro	Glu 185		Glu	Asp	Lys	Lys 190		Lys
Asp	Lys	Lys 195	Ser	Lys	Lys	Asp	Glu 200		Lys	Asp	Lys	Lys 205		Glu	Arg
Asp	Asp 210	Glu	Thr	Asp	Glu	Pro 215	Lys	Pro	Lys	Arg	Arg 220	Lys	Ser	Gly	Asp
Asp 225	Lys	Asp	Lys	Lys	Glu 230	Asp	Arg	Asp	Glu	Arg 235	Lys	Lys	Glu	Asp	Lys 240
Arg	Lys	Asp	Asp	Ser 245	Lys	Asp	Asp	Asp	Glu 250	Thr	Glu	Glu	Asp	Asn 255	Asn
Gln	Asp	Glu	Туr 260	Asp	Pro	Met	Glu	Ala 265	Glu	Glu	Ala	Glu	Asp 270	Glu	Glu
Asp	Asp	Arg 275	Asp	Glu	Glu	Glu	Met 280	Thr	Lys	Arg	Asp	Asp 285	Lys	Arg	Asp
Ile	Asn 290	Arg	Tyr	Cys	Lys	Glu 295	Arg	Pro	Ser	Lys	Asp 300	Lys	Glu	Lys	Glu
Lys 305	Thr	Gln	Met	Ile	Thr 310	Ile	Asn	Arg	Asp	Leu 315	Leu	Met	Ala	Phe	Xaa 320
Tyr	Phe	Asp	Gln	Ser 325	His	Cys	Gly	Tyr	Leu 330	Leu	Glu	Lys	Asp	Leu 335	Glu
Glu	Ile	Leu	Туr 340	Thr	Leu	Gly	Leu	His 345	Leu	Ser	Arg	Ala	Gln 350	Val	Lys
Lys	Leu	Leu 355	Asn	Lys	Val	Val	Leu 360	Arg	Glu	Ser	Cys	Phe 365	Tyr	Arg	Lys
Leu	Thr 370	Asp	Thr	Ser	Lys	Asp 375	Glu	Glu	Asn	His	Glu 380	Glu	Ser	Glu	Ser
Leu (Gln	Glu	Asp	Met	Leu 390	Gly	Asn	Arg	Leu	Leu 395	Leu	Pro	Thr	Pro	Thr 400
Val :	Lys	Gln	Glu	Ser 405	Lys	Asp	Val	Glu	Glu 410	Asn	Val	Gly	Leu	Ile 415	Val

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Tyr Asn Gly Ala Met Val Asp Val Gly Ser Leu Leu Gln Lys Leu Glu
Lys Ser Glu Lys Val Arg Ala Glu Val Glu Gln Lys Leu Gln Leu Leu
                            440
        435
Glu Glu Lys Thr Asp Glu Asp Glu Lys Thr Ile Leu Asn Leu Glu Asn
                        455
Ser Asn Lys Ser Leu Ser Gly Glu Leu Arg Glu Val Lys Lys Asp Leu
                    470
                                        475
Ser Gln Leu Gln Glu Asn Leu Lys Ile Ser Glu Asn Met Asn Leu Gln
                                    490
                485
Phe Glu Asn Gln Met Asn Lys Thr Ile Arg Asn Xaa Ser Thr Val Met
            500
                                505
Asp Glu Ile His Thr Val Leu Lys Lys Asp Asn Val Lys Asn Glu Asp
                            520
Lys Asp Gln Lys Ser Lys Glu Asn Gly Ala Ser Val
                        535
<210> 5757
<211> 231
<212> PRT
<213> Homo sapiens
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<222> (201)
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<220>
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<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5757
Glu Lys Gln Ala Glu Ile Leu Glu Tyr Ala Tyr His Gly Gln Ile Ala
                  5
                                      10
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Ile Val Ala Pro Glu Ala Leu Leu Ala Gly His Asn Tyr Thr Leu Lys 20 25 30

Ile Glu Tyr Ser Ala Asn Ile Ser Ser Ser Tyr Tyr Gly Phe Tyr Gly
35 40 45

Phe Ser Tyr Thr Asp Glu Ser Asn Glu Lys Lys Tyr Phe Ala Ala Thr 50 55 60

Gln Phe Glu Pro Leu Ala Ala Arg Ser Ala Phe Pro Cys Phe Asp Glu 65 70 75 80

Pro Ala Phe Lys Ala Thr Phe Ile Ile Lys Ile Ile Arg Asp Glu Gln 85 90 95

Tyr Thr Ala Leu Ser Asn Met Pro Lys Lys Ser Ser Val Val Leu Asp 100 105 110

Asp Gly Leu Val Gln Asp Glu Phe Ser Glu Ser Val Lys Met Ser Thr 115 120 125

Tyr Leu Val Ala Phe Ile Val Gly Glu Met Lys Asn Leu Ser Gln Asp 130 135 140

Val Asn Gly Thr Leu Val Ser Ile Tyr Ala Val Pro Glu Lys Ile Gly
145 150 155 160

Gln Val His Tyr Ala Leu Glu Thr Thr Val Lys Leu Leu Glu Phe Phe 165 170 175

Gln Asn Tyr Phe Glu Ile Gln Tyr Pro Leu Lys Lys Leu Asp Leu Val 180 185 190

Ala Ile Pro Asp Phe Glu Ala Arg Xaa Asn Gly Lys Leu Gly Phe Cys 195 200 205

Ser Pro Ser Glu Lys Xaa Thr Leu Leu Phe Asp Xaa Tyr Thr Ser Ser 210 215 220

Met Ala Asp Lys Lys Ala Gly 225 230

<210> 5758

<211> 294

<212> PRT

<213> Homo sapiens

<400> 5758

Asn Met Thr Glu Asp Ser Gln Arg Asn Phe Arg Ser Val Tyr Tyr Glu

1				5					10					15	
Lys	Val	Gly	Phe 20	Arg	Gly	Val	Glu	Glu 25	Lys	Lys	Ser	Leu	Glu 30	Ile	Leu
Leu	Lys	Asp 35	Asp	Arg	Leu	Asp	Thr 40	Glu	Lys	Leu	Cys	Thr 45	Phe	Ser	Gln
Arg	Phe 50	Pro	Leu	Pro	Ser	Met 55	Tyr	Arg	Ala	Leu	Val 60	Trp	Lys	Val	Leu
Leu 65	Gly	Ile	Leu	Pro	Pro 70	His	His	Glu	Ser	His 75	Ala	Lys	Val	Met	Met 80
Tyr	Arg	Lys	Glu	Gln 85	Tyr	Leu	Asp	Val	Leu 90	His	Ala	Leu	Lys	Val 95	Val
Arg	Phe	Val	Ser 100	Asp	Ala	Thr	Pro	Gln 105	Ala	Glu	Val	Tyr	Leu 110	Arg	Met
Tyr	Gln	Leu 115	Glu	Ser	Gly	Lys	Leu 120	Pro	Arg	Ser	Pro	Ser 125	Phe	Pro	Leu
Glu	Pro 130	Asp	Asp	Glu	Val	Phe 135	Leu	Ala	Ile	Ala	Lys 140	Ala	Met	Glu	Glu
Met 145	Val	Glu	Asp	Ser	Val 150	Asp	Cys	Tyr	Trp	Ile 155	Thr	Arg	Arg	Phe	Val 160
Asn	Gln	Leu	Asn	Thr 165	Lys	Tyr	Arg	Asp	Ser 170	Leu	Pro	Gln	Leu	Pro 175	Lys
Ala	Phe	Glu	Gln 180	Tyr	Leu	Asn	Leu	Glu 185	Asp	Gly	Arg	Leu	Leu 190	Thr	His
Leu	Arg	Met 195	Cys	Ser	Ala	Ala	Pro 200	Lys	Leu	Pro	Tyr	Asp 205	Leu	Trp	Phe
Lys	Arg 210	Cys	Phe	Ala	Gly	Cys 215	Leu	Pro	Glu	Ser	Ser 220	Leu	Gln	Arg	Val
Trp 225	Asp	Lys	Val	Val	Ser 230	Gly	Ser	Cys	Lys	Ile 235		Val	Phe	Val	Ala 240
Val	Glu	Ile	Leu	Leu 245	Thr	Phe	Lys	Ile	Lys 250		Met	Ala	Leu	Asn 255	
Ala	Glu	Lys	Ile 260		Lys	Phe	Leu	Glu 265		Ile	Pro	Gln	Asp 270		Ser
Asp	Ala	Ile	Val	Ser	Lys	Ala	Ile	Asp	Leu	Trp	His	Lys	His	Cys	Gly

5050

275 280 285

Thr Pro Val His Ser Ser 290

<210> 5759

<211> 431

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5759

Xaa Phe Gly Ala Xaa Gly Thr Val Glu Ser Glu Thr Ser Pro Asp Arg
1 5 10 15

Asp Lys Lys Glu Gln Ser Glu Val Ser Val Ser Pro Arg Ala Ser 20 25 30

Lys His His Tyr Ser Arg Ser Arg Ser Arg Ser Arg Glu Arg Lys Arg
35 40 45

Lys Ser Asp Asn Glu Gly Arg Lys His Arg Ser Arg Ser Arg Ser Lys 50 55 60

Glu Gly Arg Arg His Glu Ser Lys Asp Lys Ser Ser Lys Lys His Lys
65 70 75 80

Ser Glu Glu His Asn Asp Lys Glu His Ser Ser Asp Lys Gly Arg Glu 85 90 95

Arg Leu Asn Ser Ser Glu Asn Gly Glu Asp Arg His Lys Arg Lys Glu 100 105 110

Arg Lys Ser Ser Arg Gly Arg Ser His Ser Arg Ser Arg Ser Arg Glu
115 120 125

Arg Arg His Arg Ser Arg Ser Arg Glu Arg Lys Lys Ser Arg Ser Arg 130 135 140

Ser Arg Glu Arg Lys Lys Ser Arg Ser Arg Ser Arg Glu Arg Lys Lys

145					150					155					160
Ser	Arg	Ser	Arg	Ser 165	Arg	Glu	Arg	Lys	Arg 170	Arg	Ile	Arg	Ser	Arg 175	Ser
Arg	Ser	Arg	Ser 180	Arg	His	Arg	His	Arg 185	Thr	Arg	Ser	Arg	Ser 190	Arg	Thr
Arg	Ser	Arg 195	Ser	Arg	Asp	Arg	Lys 200	Lys	Arg	Ile	Glu	Lys 205	Pro	Arg	Arg
Phe	Ser 210	Arg	Ser	Leu	Ser	Arg 215	Thr	Pro	Ser	Pro	Pro 220	Pro	Phe	Arg	Gly
Arg 225	Asn	Thr	Ala	Met	Asp 230	Ala	Gln	Glu	Ala	Leu 235	Ala	Arg	Arg	Leu	Glu 240
Arg	Ala	Lys	Lys	Leu 245	Gln	Glu	Gln	Arg	Glu 250	Lys	Glu	Met	Val	Glu 255	Lys
Gln	Lys	Gln	Gln 260	Glu	Ile	Ala	Ala	Ala 265	Ala	Ala	Ala	Thr	Gly 270	Gly	Ser
Val	Leu	Asn 275	Val	Ala	Ala	Leu	Leu 280	Ala	Ser	Gly	Thr	Gln 285	Val	Thr	Pro
Gln	Ile 290	Ala	Met	Ala	Ala	Gln 295	Met	Ala	Ala	Leu	Gln 300	Ala	Lys	Ala	Leu
Ala 305	Glu	Thr	Gly	Ile	Ala 310	Val	Pro	Ser	Tyr	Туг 315	Asn	Pro	Ala	Ala	Val 320
Asn	Pro	Met	Lys	Phe 325	Ala	Glu	Gln	Glu	Lys 330	Lys	Arg	Lys	Met	Leu 335	Trp
Gln	Gly	Lys	Lys 340		Gly		Lys			Ser	Ala	Glu	Ile 350	Trp	Glu
Lys	Leu	Asn 355		Gly	Asn	Lys	Asp 360		Asn	Val	Lys	Phe 365	Arg	Lys	Leu
Met	Gly 370	Ile	Lys	Ser	Glu	Asp 375		Ala	Gly	Cys	Ser 380	Ser	Val	Asp	Glu
Glu 385	Ser	Tyr	Lys	Thr	Leu 390	-	Gln	Gln	Glu	Glu 395		Phe	Arg	Asn	Leu 400
Asp	Ala	Gln	Tyr	Glu 405	Met	Ala	Arg	Ser	Gln 410		His	Thr	Gln	Arg 415	Gly
Met	Gly	Leu	Gly	Phe	Thr	Ser	Ser	Met	Arg	Gly	Met	Asp	Ala	Val	

5052

420 425 430

<210> 5760

<211> 59

<212> PRT

<213> Homo sapiens

<400> 5760

Ala Gly Val Phe Ile Gly Glu Arg Lys Cys Val Val Trp Ala Gly Leu

1 5 10 15

Leu Val Glu Ala Gly Phe Leu Ala His Leu Leu Tyr Met Leu Pro Met 20 25 30

Asp Leu Arg Leu Glu Met Leu Lys Val Glu Trp Asn Tyr Phe Pro Pro 35 40 45

Lys Thr Phe Ile Tyr Ser Thr Pro Leu Tyr Pro 50 55

<210> 5761

<211> 99

<212> PRT

<213> Homo sapiens

<400> 5761

Val Ile Phe Tyr Phe Thr Asn Lys Gly Thr Lys Ser Met Asn Ile Ser 1 5 10 15

Leu Phe Leu Ile Ile Ser Ala Leu Lys Tyr Phe Gly Tyr Leu Ala Pro 20 25 30

Val Arg Ala Asp Trp His Cys Leu Val Gln Glu Val Cys Ser Arg Cys 35 40 45

Ser Ala Ser Glu Leu His Tyr Asp Cys Pro Pro Thr Asn His Pro Pro 50 55 60

Ala Ser Pro Arg Glu Arg Gly Ile Gln Arg Gly Thr Val Leu Thr Arg 65 70 75 80

Ser Ser Gln Leu Asp Pro Gly Gln Arg Asn Pro Tyr Pro Gly Thr Leu 85 90 95

Ser Leu Ser

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<212> PRT
<213> Homo sapiens
<400> 5762
Pro Pro Ser Leu Thr Lys Gly Asn Lys Ser Trp Cys Ser Thr Ala Val
                                     10
Ala Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala
             20
                                 25
Arg Phe Pro Leu Phe Leu Gly Val Ser Ile Leu Ser Pro Trp Lys Met
                             40
<210> 5763
<211> 101
<212> PRT
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<222> (31)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
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<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
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<223> Xaa equals any of the naturally occurring L-amino acids

Trp Asn Glu His Arg Pro Leu Asn Pro Arg Tyr Glu Phe Lys Ser Gln

Leu Trp Arg Trp Leu Leu Lys Val Ser Val Pro Ser Phe Phe Xaa Leu

Tyr Lys Val Asp Ile Thr Ile Ser Asn Leu Gln Ser His Trp Glu Leu

40

10

45

20

5

<222> (86)

<400> 5763

BNSDOCID: <WO___0122920A2_I_>

<210> 5762 <211> 48

Tyr Met Gln Arg Leu Gly Lys Ala Pro Gly Thr Trp Gln Ala Ile Ser 50 55 60

Lys Cys Trp Leu Leu Leu Leu Ser Leu Pro Phe Ser Gln Ser Ile
65 70 75 80

Ile Ile Ser Leu Xaa Xaa Gly Thr Met Ser Tyr Leu Pro Leu Tyr Phe
85 90 95

Pro Gln Tyr Phe Pro 100

<210> 5764

<211> 136

<212> PRT

<213> Homo sapiens

<400> 5764

Cys Val Ile Leu Thr Lys Gly Ser Ser Leu Gly Gln Pro Ser Pro Gly
1 5 10 15

Leu Gly His Ile His Leu Val Ala Lys Pro Leu Leu Gly Pro Lys Tyr 20 25 30

Thr Pro Glu Ser Cys Gln Arg Lys Glu Ile Phe Lys Lys His Arg Gln
35 40 45

Ile Val Cys Lys Trp Lys Ile Pro Ile Gly Leu Asp Ser Cys Gly Gly 50 55 60

Lys Thr Ser Trp Val Pro Gly Gly Cys Gln Ser Trp Glu Leu Cys Arg
65 70 75 80

Tyr Glu Ser Gly Lys Ala Gln Arg Gln Ala Glu Ser Leu Tyr Gly Asp 85 90 95

Asn Leu Gln Cys Leu Leu Gly Phe Pro Asn Asn Leu Gly Val Gln Ser 100 105 110

Ile Gly Phe Phe Ser Pro Leu Pro Thr Pro Arg Lys Ile Ile Arg Lys
115 120 125

Met Phe Arg Arg Lys Glu Lys Asn 130 135

<210> 5765

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<211> 168
 <212> PRT
 <213> Homo sapiens
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 <222> (34)
 <223> Xaa equals any of the naturally occurring L-amino acids
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  <222> (161)
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  <222> (167)
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  <400> 5765
  Val Arg Val Gln Glu Val Val Lys Glu Asn Glu Glu Leu His Gln Glu
                                       10
  Leu Asn Lys Ser Ser Ala Val Thr Ser Glu Glu Trp Arg Gln Leu Gln
  Thr Xaa Ala Lys Leu Val Leu Glu Glu Asn Lys Leu Leu Glu Gln
           35
                                                   45
                               40
  Leu Glu Ile Gln Gln Arg Lys Ala Lys Asp Ser His Gln Glu Arg Leu
       50
                           55
  Gln Glu Val Ser Lys Leu Thr Lys Gln Leu Met Leu Glu Ala Lys
                       70
  Thr His Gly Gln Glu Lys Glu Leu Ala Glu Asn Arg Glu Gln Leu Glu
                   85
                                       90
  Ile Leu Arg Ala Lys Cys Gln Glu Leu Lys Thr His Ser Asp Gly Lys
              100
                                  105
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Ile Ala Val Glu Val His Lys Ser Ile Val Asn Glu Leu Lys Ser Gln 115 120 125

Leu Gln Lys Glu Glu Xaa Lys Glu Arg Ala Glu Met Glu Glu Leu Met 130 135 140

Xaa Asn Ile Leu Thr Glu Xaa Asn 165

<210> 5766

<211> 135

<212> PRT

<213> Homo sapiens

<400> 5766

Ile Arg His Glu Val Val Gly Gly Ser Gly Gly Val Tyr Ala Leu Cys
1 5 10 15

Ser Ala His Leu Ala Asn Val Val Met Asn Trp Ala Gly Met Arg Cys
20 25 30

Pro Tyr Lys Leu Leu Arg Met Val Leu Ala Leu Val Cys Met Ser Ser 35 40 45

Glu Val Gly Arg Ala Val Trp Leu Arg Phe Ser Pro Pro Leu Pro Ala
50 55 60

Ser Gly Pro Gln Pro Ser Phe Met Ala His Leu Ala Gly Ala Val Val 65 70 75 80

Gly Val Ser Met Gly Leu Thr Ile Leu Arg Ser Tyr Glu Glu Arg Leu 85 90 95

Arg Asp Gln Cys Gly Trp Trp Val Val Leu Leu Ala Tyr Gly Thr Phe
100 105 110

Leu Leu Phe Ala Val Phe Trp Asn Val Phe Ala Tyr Asp Leu Leu Gly 115 120 125

Ala His Ile Pro Pro Pro Pro 130 135

<210> 5767

<211> 351

5057

5057													
<212> PRT <213> Homo sapiens													
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<400> 5767													
Ile Arg His Glu Ile Leu Trp Leu Leu Cys Ser His Arg Pro Ala Pro 1 5 10 15													
Gly Arg Pro Pro Thr His Asn Ala His Asn Trp Arg Leu Gly Gln Ala 20 25 30													
Pro Ala Xaa Trp Tyr Asn Asp Thr Tyr Pro Leu Ser Pro Pro Gln Arg 35 40 45													
Thr Pro Ala Gly Ile Arg Tyr Arg Ile Ala Val Ile Ala Asp Leu Asp 50 55 60													
Thr Glu Ser Arg Ala Gln Glu Glu Asn Thr Trp Phe Ser Tyr Leu Lys 65 70 75 80													
Lys Gly Tyr Leu Thr Leu Ser Asp Ser Gly Asp Lys Val Ala Val Glu 85 90 95													
Trp Asp Lys Asp His Gly Val Leu Glu Ser His Leu Ala Glu Lys Gly 100 105 110													
Arg Gly Met Glu Leu Ser Asp Leu Ile Val Phe Asn Gly Lys Leu Tyr 115 120 125													
Ser Val Asp Asp Arg Thr Gly Val Val Tyr Gln Ile Glu Gly Ser Lys 130 135 140													
Ala Val Pro Trp Val Ile Leu Ser Asp Gly Asp Gly Thr Val Glu Lys 145 150 155 160													
Gly Phe Lys Ala Glu Trp Leu Ala Val Lys Asp Glu Arg Leu Tyr Val 165 170 175													
Gly Gly Leu Gly Lys Glu Trp Thr Thr Thr Thr Gly Asp Val Val Asn 180 185 190													
Glu Asn Pro Glu Trp Val Lys Val Val Gly Tyr Lys Gly Ser Val Asp 195 200 205													
His Glu Asn Trp Val Ser Asn Tyr Asn Ala Leu Arg Ala Ala Ala Gly													

215 220

5058

Ile Gln Pro Pro Gly Tyr Leu Ile His Glu Ser Ala Cys Trp Ser Asp 225 230 235 240

Thr Leu Gln Arg Trp Phe Phe Leu Pro Arg Arg Ala Ser Gln Glu Arg 245 250 255

Tyr Ser Glu Lys Asp Asp Glu Arg Lys Gly Ala Asn Leu Leu Ser 260 265 270

Ala Ser Pro Asp Phe Gly Asp Ile Ala Val Ser His Val Gly Ala Val 275 280 285

Val Pro Thr His Gly Phe Ser Ser Phe Lys Phe Ile Pro Asn Thr Asp 290 295 300

Asp Gln Ile Ile Val Ala Leu Lys Ser Glu Glu Asp Ser Gly Arg Val 305 310 315 320

Ala Ser Tyr Ile Met Ala Phe Thr Leu Asp Gly Arg Phe Leu Leu Pro 325 330 335

Glu Thr Lys Ile Gly Ser Val Lys Tyr Glu Gly Ile Glu Phe Ile 340 345 350

<210> 5768

<211> 55

<212> PRT

<213> Homo sapiens

<400> 5768

Asn Tyr Gln Ile Ser Glu Ile Tyr Phe Leu Leu Val Thr Met Lys Ser 1 5 10 15

Thr Phe Thr Leu Glu Ser Asn Cys Asn Thr Pro Lys Ile Arg Ala Thr 20 25 30

Lys Gly Met Tyr Gly Ala Phe Phe Asn Leu Lys Asn Cys Ile Leu Phe 35 40 45

Leu Ile Pro Tyr Leu Lys His 50 55

<210> 5769

<211> 121

<212> PRT

<213> Homo sapiens

PCT/US00/26524 WO 01/22920

5059

<400> 5769 Tyr Pro Phe Phe Thr Leu Cys Gln Arg Asn Arg Val Phe Asp Ile Ser 10 5 Ser Tyr Val Lys Glu Met Leu Gln Asn Val Asn Cys Phe Lys Leu Lys 25 20 Leu Pro Leu Lys Arg Pro Arg Tyr Ile Tyr Leu Ile Val Tyr Ile Met 40

Phe Asn Ile Cys Gln Ser Ile Leu Gln Val Cys Ser Phe Ile Ser Ile 55

Lys Tyr Gly Tyr Tyr Val Ala Gln Leu Leu Lys Trp Tyr Cys Ile Val 70 65

Tyr Ile Cys Thr Pro Asn Asn Ile Val Cys Thr Phe Cys Phe Leu Tyr 90

Cys Ile Cys Ala Gly Phe Phe Arg Leu Tyr Gln Cys Asn Leu Cys Leu . 105

Leu Arg Tyr Val Gln Lys Met Ser Ile 115

<210> 5770

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (181)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5770

Glu Phe Gly Thr Ser His Trp Asp Met Ser Leu Pro Leu Ile Val Thr 10

Leu Ser Thr Ile Ser Ile Ile Leu Leu Ala Ala Met Ile Thr Ile Ala 20

Val Lys Cys Lys Arg Glu Asn Lys Glu Ile Arg Thr Tyr Asn Cys Arg 35 40

Ile Ala Glu Tyr Ser His Pro Gln Leu Gly Gly Gly Lys Gly Lys 55

Lys Lys Ile Asn Lys Asn Asp Ile Met Leu Val Gln Ser Glu Val Glu

5060

65 . 70 75 80 Glu Arg Asn Ala Met Asn Val Met Asn Val Val Ser Ser Pro Ser Leu 85 90 Ala Thr Ser Pro Met Tyr Phe Asp Tyr Gln Thr Arg Leu Pro Leu Ser 100 105 Ser Pro Arg Ser Glu Val Met Tyr Leu Lys Pro Ala Ser Asn Asn Leu 120 Thr Val Pro Gln Gly His Ala Gly Cys His Thr Ser Phe Thr Gly Gln 135 Gly Thr Asn Ala Ser Glu Thr Pro Ala Thr Arg Met Ser Ile Ile Gln 145 150 155 Thr Asp Asn Phe Pro Ala Glu Pro Asn Tyr Met Gly Ser Arg Gln Gln 165 170 Phe Val Gln Ser Xaa Ser Thr Phe Lys Asp Pro Glu Arg Pro Ala 185 190 <210> 5771 <211> 129 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (2) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (4) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (95) <223> Xaa equals any of the naturally occurring L-amino acids <400> 5771 Arg Xaa Pro Xaa Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser Thr Ala 5 Val Thr Thr Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser 20 25 30

5061

Ala Arg Ala Pro Ala Ser Arg Ser Arg Thr Pro Pro Ala Ser Arg Leu 40 Thr Arg Ser Cys Gln Arg Arg Ser Ala Ala Glu Pro Lys Gly Pro 55 50 Glu Asp Ser Gly Ala Gly Gly Thr Gly Cys Gly Gly Ala Asp Asp Pro Ala Lys Lys Lys Gln Arg Arg Gln Arg Thr His Phe Thr Xaa Gln Gln Leu Gln Glu Leu Glu Ala Thr Phe Gln Arg Asn Arg Tyr Pro Asp 110 100 105 Met Ser Met Arg Glu Glu Ile Ala Val Trp Thr Asn Leu Thr Glu Pro 120 115 Arg <210> 5772 <211> 399 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (208) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (349) <223> Xaa equals any of the naturally occurring L-amino acids

60

Thi 65	Let	ı His	з Суя	s Glu	1 Val		ı His	. Le	ı Pro	0 Gly 75		s Sei	Ser	Thr	Glr 80
Trp	Phe	e Lei	ı Asr	3 Gly 85		Ala	Thr	Glr	Thr 90		Thi	Pro	Ser	Туг 95	
Ile	. Thr	Ser	100	ser	Val	Asn	Asp	Ser 105		/ Glu	туг	Arg	7 Cys		Arg
Gly	Leu	Ser 115	Gly	Arg	Ser	Asp	Pro 120		e Gln	Leu	Glu	11e	His	Arg	Gly
Trp	130	Leu	Leu	Gln	Val	Ser 135		Arg	Val	. Phe	Thr 140		Gly	Glu	Pro
Leu 145	Ala	Leu	Arg	Cys	His 150	Ala	Trp	Lys	Asp	Lys 155		Val	Tyr	Asn	Val 160
Leu	Tyr	Tyr	Arg	Asn 165	Gly	Lys	Ala	Phe	Lys 170		Phe	His	Trp	Asn 175	Ser
Asn	Leu	Thr	Ile 180	Leu	Lys	Thr	Asn	Ile 185		His	Asn	Gly	Thr 190	Tyr	His
Cys	Ser	Gly 195	Met	Gly	Lys	His	Arg 200	Tyr	Thr	Ser	Ala	Gly 205	Ile	Ser	Xaa
Thr	Val 210	Lys	Glu	Leu	Phe	Pro 215	Ala	Pro	Val	Leu	Asn 220	Ala	Ser	Val	Thr
Ser 225	Pro	Leu	Leu	Glu	Gly 230	Asn	Leu	Val	Thr	Leu 235	Ser	Cys	Glu	Thr	Lys 240
Leu	Leu	Leu	Gln	Arg 245	Pro	Gly	Leu	Gln	Leu 250	Tyr	Phe	Ser	Phe	Туг 255	Met
Gly	Ser	Lys	Thr 260	Leu	Arg	Gly	Arg	Asn 265	Thr	Ser	Ser	Glu	Туг 270	Gln	Ile
Leu	Thr	Ala 275	Arg	Arg	Glu	Asp	Ser 280	Gly	Leu	Tyr	Trp	Cys 285	Glu	Ala	Ala
Thr	Glu 290	Asp	Gly	Asn	Val	Leu 295	Lys	Arg	Ser	Pro	Glu 300	Leu	Glu	Leu	Gln
Val 305	Leu	Gly	Leu	Gln	Leu 310	Pro	Thr	Pro	Val	Trp 315	Phe	His	Val	Leu	Phe 320
Tyr	Leu	Ala	Val	Gly 325	Ile	Met	Phe	Leu	Val 330	Asn	Thr	Val	Leu	Trp 335	Val

5063 Thr Ile Arg Lys Glu Leu Lys Arg Lys Lys Trp Xaa Leu Glu Ile 345 350 340 Ser Leu Asp Ser Gly His Glu Lys Lys Val Ile Ser Ser Leu Gln Glu 355 360 365 Asp Arg His Leu Glu Glu Glu Leu Lys Cys Gln Glu Gln Lys Glu Glu 375 Gln Leu Gln Glu Gly Val His Arg Lys Glu Pro Gln Gly Ala Thr 390 <210> 5773 <211> 164 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (20) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (154) <223> Xaa equals any of the naturally occurring L-amino acids <400> 5773 Gly Asp Arg Ala Glu Pro Ser Val Tyr Trp Ala Ala Val Thr Leu Arg 5 10

Phe Gln Met Xaa Met Phe Glu Ser Ala Asp Ser Thr Ala Thr Arg Ser 20 25 30

Gly Gln Asp Leu Trp Ala Glu Ile Cys Ser Cys Leu Pro Asn Pro Glu 35 40 45

Gln Glu Asp Gly Ala Asn Asn Ala Phe Ser Asp Ser Phe Val Asp Ser 50 55 60

Cys Pro Glu Gly Glu Gly Gln Arg Glu Val Ala Asp Phe Ala Val Gln 65 70 75 80

Pro Ala Val Lys Pro Trp Ala Pro Leu Gln Asp Ser Glu Val Tyr Leu 85 90 95

Ala Ser Leu Glu Lys Lys Leu Arg Arg Ile Lys Gly Leu Asn Gln Glu 100 105 110

Val Thr Ser Lys Asp Met Leu Arg Thr Leu Ala Gln Ala Lys Lys Glu 115 120 Cys Trp Asp Arg Phe Leu Gln Glu Lys Leu Ala Ser Glu Phe Phe Val 135 140 Asp Gly Leu Asp Ser Asp Glu Ser Thr Xaa Gly Thr Phe Gln Glu Val 150 155 Ala Pro Ala Arg <210> 5774 <211> 184 <212> PRT <213> Homo sapiens <400> 5774 Lys Met Ala Ser Asn Lys Thr Thr Leu Gln Lys Met Gly Lys Lys Gln Asn Gly Lys Ser Lys Lys Val Glu Glu Ala Glu Pro Glu Glu Phe Val 20 25 Val Glu Lys Val Leu Asp Arg Arg Val Val Asn Gly Lys Val Glu Tyr 40 Phe Leu Lys Trp Lys Gly Phe Thr Asp Ala Asp Asn Thr Trp Glu Pro Glu Glu Asn Leu Asp Cys Pro Glu Leu Ile Glu Ala Phe Leu Asn Ser 65 70 75 Gln Lys Ala Gly Lys Glu Lys Asp Gly Thr Lys Arg Lys Ser Leu Ser 85 Asp Ser Glu Ser Asp Asp Ser Lys Ser Lys Lys Arg Asp Ala Ala 105 Asp Lys Pro Arg Gly Phe Ala Arg Gly Leu Asp Pro Glu Arg Ile Ile

120

135

150

Gly Ala Thr Asp Ser Ser Gly Glu Leu Met Phe Leu Met Lys Trp Lys

Asp Ser Asp Glu Ala Asp Leu Val Leu Ala Lys Glu Ala Asn Met Lys

155

160

115

130

5065

Cys Pro Gln Ile Val Ile Ala Phe Tyr Glu Glu Arg Leu Thr Trp His 165 170 175

Ser Cys Pro Glu Asp Glu Ala Gln 180

<210> 5775

<211> 76

<212> PRT

<213> Homo sapiens

<400> 5775

Lys Val Thr Glu Asp Thr Ser Ser Val Leu Arg Ser Pro Met Pro Gly
1 5 10 15

Val Val Val Ala Val Ser Val Lys Pro Gly Asp Ala Val Ala Glu Gly 20 25 30

Gln Glu Ile Cys Val Ile Glu Ala Met Lys Met Gln Asn Ser Met Thr 35 40 45

Ala Gly Lys Thr Gly Thr Val Lys Ser Val His Cys Gln Ala Gly Asp 50 55 60

Thr Val Gly Glu Gly Asp Leu Leu Val Glu Leu Glu 65 70 75

<210> 5776

<211> 57

<212> PRT

<213> Homo sapiens

<400> 5776

Thr Leu Gln Ser Lys Asp Ile Asp Trp Leu Asn Glu Trp Arg Lys Gln
1 10 15

Asp Pro Leu Ile Cys Cys Leu Gln Glu Thr His Leu Asn Tyr Lys Asp 20 25 30

Thr His Arg Leu Lys Val Lys Ser Trp Lys Glu Leu Phe His Ala Asn 35 40 45

Gly Asn Gln Glu Lys Glu Lys Glu Tyr
50 55

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<210> 5777
 <211> 277
<212> PRT
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<222> (125)
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                                      10
Ser Ser Arg Pro Glu Pro Ala Asn Glu Arg Lys Met Ala Asp Asn Phe
             20
                                 25
Ser Leu His Asp Ala Leu Ser Gly Ser Gly Asn Pro Asn Pro Gln Gly
                              40
Trp Pro Gly Ala Trp Gly Asn Gln Pro Ala Gly Ala Gly Gly Tyr Pro
Gly Ala Ser Tyr Pro Gly Ala Tyr Pro Gly Gln Ala Pro Pro Gly Ala
 65
                     70
Tyr Pro Gly Gln Ala Pro Pro Gly Ala Tyr Xaa Gly Ala Pro Gly Ala
Tyr Pro Gly Ala Pro Ala Pro Gly Val Tyr Pro Gly Pro Pro Ser Gly
                                105
Pro Gly Ala Tyr Pro Ser Ser Gly Gln Pro Ser Ala Xaa Gly Ala Tyr
        115
                            120
                                                125
Pro Ala Thr Gly Pro Tyr Gly Ala Pro Ala Gly Pro Leu Ile Val Pro
    130
                        135
Tyr Asn Leu Pro Leu Pro Gly Gly Val Val Pro Arg Met Leu Ile Thr
145
                    150
                                        155
                                                            160
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5067

Ile Leu Gly Thr Val Lys Pro Asn Ala Asn Arg Ile Ala Leu Asp Phe 165 170 175

Gln Arg Gly Asn Asp Val Ala Phe His Phe Asn Pro Arg Phe Asn Glu 180 185 190

Asn Asn Arg Arg Val Ile Val Cys Asn Thr Lys Leu Asp Asn Asn Trp

195 200 205

Gly Arg Glu Glu Arg Gln Ser Val Phe Pro Phe Glu Ser Gly Lys Pro 210 215 220

Phe Lys Ile Gln Val Leu Val Glu Pro Asp His Phe Lys Val Ala Val 225 230 235 240

Asn Asp Ala His Leu Leu Gln Tyr Asn His Arg Val Lys Lys Leu Asn 245 250 255

Glu Ile Ser Lys Leu Gly Ile Ser Gly Asp Ile Asp Leu Thr Ser Ala 260 265 270

Ser Tyr Thr Met Ile 275

<210> 5778

<211> 565

<212> PRT

<213> Homo sapiens

<400> 5778

Leu His Cys Thr Met Cys Gly Ile Trp Ala Leu Phe Gly Ser Asp Asp 1 5 10 15

Cys Leu Ser Val Gln Cys Leu Ser Ala Met Lys Ile Ala His Arg Gly 20 25 30

Pro Asp Ala Phe Arg Phe Glu Asn Val Asn Gly Tyr Thr Asn Cys Cys
35 40 45

Phe Gly Phe His Arg Leu Ala Val Val Asp Pro Leu Phe Gly Met Gln 50 55 60

Pro Ile Arg Val Lys Lys Tyr Pro Tyr Leu Trp Leu Cys Tyr Asn Gly 65 70 75 80

Glu Ile Tyr Asn His Lys Lys Met Gln Gln His Phe Glu Phe Glu Tyr 85 90 95

Gln Thr Lys Val Asp Gly Glu Ile Ile Leu His Leu Tyr Asp Lys Gly

			100	1				105					110	1	
Gly	Ile	Glu 115		Thr	Ile	Cys	Met 120		Asp	Gly	Val	Phe 125	Ala	Phe	Va]
Leu	Leu 130		Thr	Ala	Asn	Lys 135		Val	Phe	. Leu	Gly 140		Asp	Thr	Туз
Gly 145	Val	Arg	Pro	Leu	Phe 150		Ala	Met	Thr	Glu 155		Gly	Phe	Leu	Ala 160
Val	Cys	Ser	Glu	Ala 165		Gly	Leu	Val	Thr 170		Lys	His	Ser	Ala 175	Thr
Pro	Phe	Leu	Lys 180	Val	Glu	Pro	Phe	Leu 185	Pro	Gly	His	Tyr	Glu 190	Val	Leu
Asp	Leu	Lys 195	Pro	Asn	Gly	Lys	Val 200	Ala	Ser	Val	Glu	Met 205	Val	Lys	Туг
His	His 210	Суѕ	Arg	Asp	Glu	Pro 215	Leu	His	Ala	Leu	Tyr 220	Asp	Asn	Val	Glu
Lys 225	Leu	Phe	Pro	Gly	Phe 230	Ğlu	Ile	Glu	Thr	Val 235	Lys	Asn	Asn	Leu	Arg 240
Ile	Leu	Phe	Asn	Asn 245	Ala	Val	Lys	Lys	Arg 250	Leu	Met	Thr	Asp	Arg 255	Arg
Ile	Gly	Cys	Leu 260	Leu	Ser	Gly	Gly	Leu 265	Asp	Ser	Ser	Leu	Val 270	Ala	Ala
Thr	Leu	Leu 275	Lys	.Gln	Leu	Lys	Glu 280	Ala	Gln	Val	Gln	Tyr 285	Pro	Leu	Gln
Thr	Phe 290	Ala	Ile	Gly	Met	Glu 295	Asp	Ser	Pro	Asp	Leu 300	Leu	Ala	Ala	Arg
Lys 305	Val	Ala	Asp	His	Ile 310	Gly	Ser	Glu	His	Tyr 315	Glu	Val	Leu	Phe	Asn 320
Ser	Glu	Glu	Gly	Ile 325	Gln	Ala	Leu	Asp	Glu 330	Val	Ile	Phe	Ser	Leu 335	Glu
Thr	Tyr	Asp	Ile 340	Thr	Thr	Val	Arg	Ala 345	Ser	Val	Gly	Met	Tyr 350	Leu	Ile
Ser	Lys	Туг 355	Ile	Arg	Lys	Asn	Thr 360	Asp	Ser	Val	Val	Ile 365	Phe	Ser	Gly
Glu	Gly	Ser	Asp	Glu	Leu	Thr	Gln	Gly	Tyr	Ile	Tyr	Phe	His	Lys	Ala

5069

380 375 370 Pro Ser Pro Glu Lys Ala Glu Glu Ser Glu Arg Leu Leu Arg Glu 390 395 385 Leu Tyr Leu Phe Asp Val Leu Arg Ala Asp Arg Thr Thr Ala Ala His 405 410 Gly Leu Glu Leu Arg Val Pro Phe Leu Asp His Arg Phe Ser Ser Tyr 430 420 425 Tyr Leu Ser Leu Pro Pro Glu Met Arg Ile Pro Lys Asn Gly Ile Glu 445 440 435 Lys His Leu Leu Arg Glu Thr Phe Glu Asp Ser Asn Leu Ile Pro Lys 455 Glu Ile Leu Trp Arg Pro Lys Glu Ala Phe Ser Asp Gly Ile Thr Ser 470 475 Val Lys Asn Ser Trp Phe Lys Ile Leu Gln Glu Tyr Val Glu His Gln 490 485 Val Asp Asp Ala Met Met Ala Asn Ala Gln Lys Phe Pro Phe Asn 500 505 Thr Pro Lys Thr Lys Glu Gly Tyr Tyr Tyr Arg Gln Val Phe Glu Arg 520 His Tyr Pro Gly Arg Ala Asp Trp Leu Ser His Tyr Trp Met Pro Lys 530 535 540 Trp Ile Asn Ala Thr Asp Pro Ser Ala Arg Thr Leu Thr His Tyr Lys 545 550 555 Ser Ala Val Lys Ala 565 <210> 5779 <211> 173 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (110) <223> Xaa equals any of the naturally occurring L-amino acids

<400> 5779

5070

Cys Phe Ala Ser Asp Arg Ile Ser Leu His Arg Asp Leu Gly Pro Asp 1 5 10 15

Thr Arg Pro Pro Glu Cys Ile Glu Gln Lys Phe Lys Arg Cys Pro Pro 20 25 30

Leu Pro Thr Thr Ser Val Ile Ile Val Phe His Asn Glu Ala Trp Ser 35 40 45

Thr Leu Leu Arg Thr Val His Ser Val Leu Tyr Ser Ser Pro Ala Ile 50 55 60

Leu Leu Lys Glu Ile Ile Leu Val Asp Asp Ala Ser Val Asp Glu Tyr 65 70 75 80

Leu His Asp Lys Leu Asp Glu Tyr Val Lys Gln Phe Ser Ile Val Lys
85 90 95

Ile Val Arg Gln Arg Glu Arg Lys Gly Leu Ile Thr Ala Xaa Leu Leu 100 105 110

Gly Ala Thr Val Ala Thr Ala Glu Thr Leu Thr Phe Leu Asp Ala His 115 120 125

Cys Glu Cys Phe Tyr Gly Trp Leu Glu Pro Leu Leu Ala Arg Ile Ala 130 135 140

Asn Thr Phe Glu Phe Asn Lys Pro Ser Pro Tyr Gly Lys 165 170

<210> 5780

<211> 49

<212> PRT

<213> Homo sapiens

<400> 5780

Glu Lys Leu Thr Asp Leu Asn Lys Trp Gly Ser Thr Pro Cys Ser Thr 1 5 10 15

Ile Gly Lys Leu Arg Ile Val Lys Met Ser Phe Leu Pro Lys Leu Ile 20 25 30

Tyr Lys Ser Gln Lys Thr Phe Phe Leu Gln Thr Leu Ile Lys Val Val 35 40 45

Phe

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<210> 5781
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<212> PRT
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Ser Cys Lys Lys Asp Met Lys Asn Met Asn Tyr Cys Thr Ser His Cys
                  5
Tyr Phe His Val Gln Tyr Ser Arg Xaa Ile Leu Thr Thr Ile Asp Xaa
             20
Xaa Leu Lys Xaa Val Xaa Gly Lys Xaa Xaa Xaa Ile Leu Xaa Ile Xaa
                              40
Ile Ala Xaa Glu Arg Arg Ile Gln Gly Pro Glu Xaa Gly Ala Thr
<210> 5782
<211> 104
<212> PRT
<213> Homo sapiens
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<400> 5782
Met Arg Arg Val Ile Leu His Ser Pro Leu Met Ser Gly Leu Arg Val
                                     10
Ala Phe Pro Asp Thr Arg Lys Thr Tyr Cys Phe Asp Ala Phe Pro Ser
             20
                                 25
Ile Asp Lys Ile Ser Lys Val Thr Ser Pro Val Leu Val Ile His Gly
```

5073

45 40 35 Thr Glu Asp Glu Val Ile Asp Phe Ser His Gly Leu Ala Met Tyr Glu 55 60 Arg Cys Pro Arg Ala Val Glu Pro Leu Trp Xaa Glu Gly Ala Gly His Asn Asp Ile Glu Leu Tyr Ala Gln Tyr Leu Glu Arg Leu Lys Gln Phe 90 Ile Ser His Glu Leu Pro Asn Ser 100 <210> 5783 <211> 219 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (5) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (13) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (43) <223> Xaa equals any of the naturally occurring L-amino acids <400> 5783 Ser Phe Arg Leu Xaa Cys Glu Leu Arg Arg Cys Met Xaa Gly Asn Asn Met Ser Thr Pro Leu Pro Ala Ile Val Pro Ala Ala Arg Lys Ala Thr 25 Ala Ala Val Ile Phe Leu His Gly Leu Gly Xaa Thr Gly Pro Val Arg 45 35 40 Pro Val Thr Leu Asn Met Asn Val Ala Met Pro Ser Trp Phe Asp Ile 50 Ile Gly Leu Ser Pro Asp Ser Gln Glu Asp Glu Ser Gly Ile Lys Gln 70 75

Ala Ala Glu Asn Ile Lys Ala Leu Ile Asp Gln Glu Val Lys Asn Gly 85 Ile Pro Ser Asn Arg Ile Ile Leu Gly Gly Phe Ser Gln Gly Gly Ala 105 Leu Ser Leu Tyr Thr Ala Leu Thr Thr Gln Gln Lys Leu Ala Gly Val 120 Thr Ala Leu Ser Cys Trp Leu Pro Leu Arg Ala Ser Phe Pro Gln Gly 130 135 Pro Ile Gly Gly Ala Asn Arg Asp Ile Ser Ile Leu Gln Cys His Gly 150 155 Asp Cys Asp Pro Leu Val Pro Leu Met Phe Gly Ser Leu Thr Val Glu 165 170 Lys Leu Lys Thr Leu Val Asn Pro Ala Asn Val Thr Phe Lys Thr Tyr 180 185 Glu Gly Met Met His Ser Ser Cys Gln Gln Glu Met Met Asp Val Lys 195 200 Gln Phe Ile Asp Lys Leu Leu Pro Pro Ile Asp 210 215 <210> 5784 <211> 326 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (123) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (136) <223> Xaa equals any of the naturally occurring L-amino acids <400> 5784 Pro Arg His Gly Gln His His Arg Glu Gln Gly Asp Thr Ala Ile Leu

Arg Cys Val Val Glu Asp Lys Asn Ser Lys Val Ala Trp Leu Asn Arg

Ser	Gly	Ile 35	Ile	Phe	Ala	Gly	His 40	Asp	Lys	Trp	Ser	Leu 45	Asp	Pro	Arg
Val	Glu 50	Leu	Glu	Lys	Arg	His 55	Ser	Leu	Glu	Tyr	Ser 60	Leu	Arg	Ile	Gln
Lys 65	Val	Asp	Val	Tyr	Asp 70	Glu	Gly	Ser	Tyr	Thr 75	Cys	Ser	Val	Gln	Thr 80
Gln	His	Glu	Pro	Lys 85	Thr	Ser	Gln	Val	Tyr 90	Leu	Ile	Val	Gln	Val 95	Pro
Pro	Lys	Ile	Ser 100	Asn	Ile	Ser	Ser	Asp 105	Val	Thr	Val	Asn	Glu 110	Gly	Ser
Asn	Val	Thr 115	Leu	Val	Cys	Met	Ala 120	Asn	Gly	Xaa	Pro	Glu 125	Pro	Val	Ile
Thr	Trp 130	Arg	His	Leu	Thr	Pro 135	Xaa	Gly	Arg	Glu	Phe 140	Glu	Gly	Glu	Glu
Glu 145	Tyr	Leu	Glu	Ile	Leu 150	Gly	Ile	Thr	Arg	Glu 155	Gln	Ser	Gly	Lys	Туr 160
Glu	Cys	Lys	Ala	Ala 165	Asn	Glu	Val	Ser	Ser 170	Ala	Asp	Val	Lys	Gln 175	Val
Lys	Val	Thr	Val 180	Asn	Tyr	Pro	Pro	Thr 185	Ile	Thr	Glu	Ser	Lys 190	Ser	Asn
Glu	Ala	Thr 195	Thr	Gly	Arg	Gln	Ala 200	Ser	Leu	Lys	Cys	Glu 205	Ala	Ser	Ala
Val	Pro 210	Ala	Pro	Asp	Phe	Glu 215	Trp	Tyr	Arg	Asp	Asp 220	Thr	Arg	Ile	Asn
Ser 225	Ala	Asn	Gly	Leu	Glu 230	Ile	Lys	Ser	Thr	Glu 235	Gly	Gln	Ser	Ser	Leu 240
Thr	Val	Thr	Asn	Val 245		Glu	Glu	His	Туг 250		Asn	Tyr	Thr	Cys 255	Val
Ala	Ala	Asn	Lys 260	Leu	Gly	Val	Thr	Asn 265	Ala	Ser	Leu	Val	Leu 270		Lys
Arg	Val	Leu 275		Thr	Ile	Pro	His 280		Ile	Gln	Glu	Ile 285		Thr	Thr
Val	His 290		Lys	Gĺn	Lys	Gly 295	Pro	Gly	Ser	Val	Arg 300		Ile	Asn	Gly

5076

315

320

Ser Ile Ser Leu Ala Val Pro Leu Trp Leu Leu Ala Ala Ser Leu Leu

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Cys Leu Leu Ser Lys Cys
                325
<210> 5785
<211> 217
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<400> 5785
Pro Thr Arg Pro Ala Glu Lys Asp Pro Gly Arg Ser Ala Pro Gly Ala
                  5
Ala Ser Ala Ala Ala Leu Lys Gln Leu Gly Asp Ser Pro Ala Glu
             20
                                                     30
Asp Lys Ser Ser Phe Lys Pro Tyr Ser Lys Gly Ser Gly Gly Asp
         35
                             40
                                                 45
Ser Arg Lys Asp Ser Gly Ser Ser Ser Val Ser Ser Thr Ser Ser Ser
                         55
Ser Ser Ser Pro Gly Asp Lys Ala Gly Phe Xaa Val Pro Ser Ala
65
                     70
                                         75
Ala Cys Pro Pro Pro Pro His Gly Ala Pro Val Ser Ala Ser Ser
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5077

85 90 95

Ser Ser Ser Pro Gly Gly Ser Arg Gly Gly Ser Pro His His Ser 100 105 110

Asp Cys Lys Asn Gly Gly Gly Val Gly Gly Glu Leu Asp Lys Lys 115 120 125

Asp Gln Glu Pro Lys Pro Ser Pro Glu Pro Ala Ala Val Ser Arg Gly 130 135 140

Gly Gly Glu Pro Gly Ala His Gly Gly Ala Glu Ser Gly Ala Ser 145 150 155 160

Gly Arg Lys Ser Glu Pro Pro Ser Ala Leu Val Gly Ala Gly His Val 165 170 175

Ala Pro Val Ser Pro Thr Ser Arg Ala Thr Arg Cys Ser Arg Xaa Arg 180 185 190

Leu Gln His Trp Leu Pro Arg Leu His Arg Gly Arg Leu Arg Arg Xaa 195 200 205

Pro Val Leu Ile Xaa Ala Trp Pro Gly 210 215

<210> 5786

<211> 69

<212> PRT

<213> Homo sapiens

<400> 5786

Pro Gln Lys Lys Tyr Phe Met Trp Val Phe Cys Phe Ser Leu Leu Asp 1 5 10 15

Phe Met Asp Glu Gly Ile Trp Leu Thr Phe Tyr Phe Leu Met Glu Gln 20 25 30

Pro Val Phe Val Asn Tyr Ser Leu Val Asn Cys Glu Ile Leu Asn Ser 35 40 45

Leu Pro Ala Ile Leu Val Leu Val Ser Gly Gln Ile Tyr Ala Val Val 50 55 60

Leu Met Arg Leu Val 65

<210> 5787 <211> 145 <212> PRT <213> Homo sapiens <400> 5787 His Cys Ser Glu Gly His Ala Lys Ser Arg His Arg Ser Trp Gln Gln 10 Glu Gly Asp Arg Ala Ser Pro Arg His Thr Ser Pro Gly Gly Asp Ser Gly Lys Glu Pro Arg Thr Gly Lys Asp Trp Val Gly Glu Gly Val Arg 40 Gly Leu Val Val Thr Gln Ser Trp Arg Gly Ala Lys Ser Thr Gly Gly 50 Tyr Pro Leu Ala Ala Ser Ala Leu Ala Val Cys Pro Phe Met Ser Gln 70 75 Thr Ala Thr Thr Met Tyr Leu Gln Trp Gly Cys Arg Asp Gly Gly Asp 90 Ser Ser Leu Thr Pro Gln Glu Leu Pro Gly Pro Lys Glu Glu Asn Ala 100 105 110 Ala Ser Phe Gln Ser Gly Leu His Pro Leu Ser Gly Ser Leu Ser Ala 115 120 Ser Cys Asn Ser Gly Cys Phe Ser Arg Leu Ser Ser Asn Ser Ala Pro 135 140 Pro 145 <210> 5788 <211> 113 <212> PRT <213> Homo sapiens <400> 5788 Leu Arg Arg Pro Phe Leu Met Leu Leu Leu Asp Leu Met Ser Ser Pro

Lys Arg Arg Ser Pro Pro Gln Ala Ile Cys Leu His Leu Ala Gly Glu

Ser Pro Gln Leu Leu Val Ala Ala Gln Gln Thr Leu Gly Met Gly

20

10

5079

35 40 45

Val Leu Ala Val Ala Arg Gly Leu Lys Pro Ala Val Leu Tyr Asp Cys
50 55 60

Asn Cys Ala Gly Ala Ser Glu Leu Gln Ser Tyr Leu Glu Glu Leu Lys 65 70 75 80

Gly Leu Gly Phe Leu Thr Phe Gly Leu His Ile Leu Glu Ile Gly Glu 85 90 95

Asn Ser Leu Ile Val Ser Pro Glu His Val Cys Gln His Leu Glu Gln 100 105 110

Val

<210> 5789

<211> 32

<212> PRT

<213> Homo sapiens

<400> 5789

Lys Phe Ser Gln Ala Trp Trp His Met Pro Ile Val Pro Ala Ile Trp
1 5 10 15

Val Ala Lys Val Gly Glu Leu Leu Glu Pro Gly Arg Ser Arg Leu Gln 20 25 30

<210> 5790

<211> 67

<212> PRT

<213> Homo sapiens

<400> 5790

Val Tyr Lys Met Phe Ser Met Arg Asn Gln Glu Thr Tyr Thr Gly Leu 1 5 10 15

Thr Val Val Ser Tyr Met Ser Pro Gln Phe Gln Cys Ala Cys Ser Leu 20 25 30

Thr Ser Pro Phe Pro Asn Pro Ser Leu Leu Gly Cys Cys Phe Lys Val

Cys Pro Ser Pro Asn Leu Asp Phe Tyr Tyr Arg Ser Lys Ala Leu Ser 50 55 60

Ile Leu Tyr 65

<210> 5791

<211> 77

<212> PRT

<213> Homo sapiens

<400> 5791

Trp Leu Leu Cys Pro Val Arg Val Phe Ser Ser Leu Thr Trp Val His 1 5 10 15

Phe Leu Met Ala His Met Lys Phe Gly Ser Tyr Gly Leu Thr Leu Ala 20 25 30

Met Val Leu Ser Tyr Gly Glu Gln His Gln Arg Pro Val Thr Cys Lys 35 40 45

Leu Lys Ile Gln Cys Gln Gly Pro Ser Pro Ala Pro Leu Ile Glu Asn 50 55 60

Leu Leu Ala Ile Cys Ile Phe Arg Cys Ser Arg Leu Val 65 70 75

<210> 5792

<211> 120

<212> PRT

<213> Homo sapiens

<400> 5792

Tyr Val Tyr Leu Ile Ile Leu Pro Leu Ala Lys Cys Tyr Val Cys Lys

1 5 10 15

Met Trp His Leu Leu Val Phe Ile Val Cys Val Phe Phe Val Tyr Tyr 20 . 25 30

Thr Leu Gly Asn Phe Val Leu Pro Lys Lys Lys Lys Lys Arg Lys Cys 35 40 45

Asn Val Arg His Thr Arg Lys Ala Asn Gln Cys Cys Lys Leu Lys Val 50 55 60

Gln Phe Gln Arg Ser Leu Pro Thr Ala Gly Phe Phe Leu Tyr Phe Lys
65 70 75 80

PCT/US00/26524 WO 01/22920

5081

Asn Ile Met Leu His Ile Ile Ala Ile Phe Ile Phe Trp Gly Phe Ala 85 Thr Leu Ile Gln Trp Asn Gln Trp Lys Cys His Pro Ala Thr Glu Leu 105 110 100 Pro Leu Leu Tyr Leu Lys Ser Phe 115 <210> 5793

<211> 104 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (42) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (66) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (74) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (82) <223> Xaa equals any of the naturally occurring L-amino acids <400> 5793

Leu Leu Gly Ser Cys Leu Gln Glu Ala Met Thr Leu Asn Ser Glu Pro 5 10

Tyr Ser Val Leu Thr Ser Gly Ser His Val Phe Leu Cys Gln Val Ile 20

Lys Tyr Leu Val Leu Val Phe Cys Leu Xaa Pro Lys Leu Pro Leu Trp 40

Val His Arg Arg Leu Gly Ser Ile Val Arg Met Ala Ile Arg Glu Tyr 55

Lys Xaa Gly Phe Ser Arg Ala Trp Glu Xaa Ile Leu Glu Pro Arg Arg

5082

65 70 75 80 Ala Xaa Pro Ala Leu Arg Ser Phe Gly Val Glu Met Gln Pro Trp Glu 90 Ile Trp Gly Val Ser Arg Pro Val 100 <210> 5794 <211> 36 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (13) <223> Xaa equals any of the naturally occurring L-amino acids <400> 5794 Asp Leu Lys Arg Lys Ser Lys Ser Phe Tyr Tyr Asp Xaa Ile Pro Val 1 5 10 15 Glu Tyr Leu Lys Gly Thr Pro His Leu Asn Asn Gln Cys Lys Tyr Phe 20 25 Leu Ser Lys Leu 35 <210> 5795 <211> 96 <212> PRT <213> Homo sapiens <400> 5795 Ile Ala Arg Leu Val Gly Phe Ala Thr Cys Gly Ser Pro Arg Gly Ser 5 Lys Asn Gly Gly Arg Arg Gly Gly Gly Pro Gly Arg Glu Trp Val 25 Glu Leu Glu Pro Gln Lys Ser Ala Glu Leu Arg Gly Arg Ala Gly Arg Lys Gly Gly Ala Ala Gly Ala Arg Gly His Pro Ala Ala Gly Cys 50 55

Ser Asp Arg Gly Lys Cys Leu Glu Asn Cys Gly Leu Arg Cys Leu Tyr

5083

Asp Ala Val Leu Leu Glu Pro Trp Arg Lys Met Glu Leu Val Leu Gln 85 90 95

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<210> 5796
<211> 220
<212> PRT
<213> Homo sapiens
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Phe Gly Gly Ala Tyr Asp Gly Lys Tyr Glu Lys Thr Leu Tyr Gly His
                  5
Asn Leu Glu Ile Ser Asp Val Ala Trp Xaa Ser Asp Ser Xaa Arg Leu
             20
                                  25
Xaa Ser Ala Xaa Xaa Asp Lys Thr Leu Lys Leu Trp Asp Val Arg Ser
                              40
Gly Lys Cys Leu Lys Thr Leu Lys Gly His Ser Asn Tyr Val Phe Cys
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5084

50 55 60 Cys Asn Phe Asn Pro Pro Ser Asn Leu Ile Ile Ser Gly Ser Phe Asp 70 75 Glu Thr Val Lys Ile Trp Glu Val Lys Thr Gly Lys Cys Leu Lys Thr 90 Leu Ser Ala His Ser Asp Pro Val Ser Ala Val His Phe Asn Cys Ser 100 105 Gly Ser Leu Ile Val Ser Gly Ser Tyr Asp Gly Leu Cys Arg Ile Trp 120 125 Asp Ala Ala Ser Gly Gln Cys Leu Lys Thr Leu Val Asp Asp Asp Asn Pro Pro Val Ser Phe Val Lys Phe Ser Pro Asn Gly Lys Tyr Ile Leu 145 150 155 Thr Ala Thr Leu Asp Asn Thr Leu Lys Leu Trp Asp Tyr Ser Arg Gly 165 170 Arg Cys Leu Lys Thr Tyr Thr Gly His Lys Asn Glu Lys Tyr Cys Ile 185 Phe Ala Asn Phe Ser Val Thr Gly Gly Lys Trp Ile Val Ser Gly Ser 195 200 Glu Asp Asn Arg Val Tyr Ile Trp Glu Pro Ser Asp 210 215 220 <210> 5797 <211> 131 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (8) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (88) <223> Xaa equals any of the naturally occurring L-amino acids

<220> <221> SITE

5085

<222> (101)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5797

Asp Pro Arg Val Arg Thr Arg Xaa Pro Asn Met Tyr Gln Val Leu
1 5 10 15

Leu Phe Val Val Val Pro Glu Leu Gln Glu His Gln Ser Lys Pro Ser 20 25 30

Arg Pro Ser Pro Arg Val Ala Asp Asn Pro Glu Glu Gly Arg Glu Pro 35 40 45

His Asn Asp Arg Pro Val Ser Met Ala Phe Gly Cys Gln Pro Glu His 50 55 60

Val Tyr Ala Glu Cys Gly Lys Thr Tyr Arg Pro Pro Pro Thr Pro Lys 65 70 75 80

Leu Phe Pro Gln Ser Thr Val Xaa Asn Thr Thr Pro Ser Phe Thr Ser 85 90 95

Gly Thr Glu Xaa Leu Phe Val Phe Leu Ile Ser Ile Ser Arg Arg
100 105 110

Leu Phe Ser Thr Pro Leu Phe Leu Pro Pro Gln Phe Ala Ile Pro Leu 115 120 125

Leu Ala Leu 130

<210> 5798

<211> 239

<212> PRT

<213> Homo sapiens

<400> 5798

Gln Pro Pro Gly Thr Arg Asp Pro Ala Pro Pro Leu Ile Thr Pro Ala 1 5 10 15

Thr Pro Gln Leu Ser Ala Ala Pro Asp Ala Met Asp Pro Ala Leu Ala
20 25 30

Ala Gln Met Ser Glu Ala Val Ala Glu Lys Met Leu Gln Tyr Arg Arg 35 40 45

Asp Thr Ala Gly Trp Lys Ile Cys Arg Glu Gly Asn Gly Val Ser Val 50 55 60

5086

Ser Trp Arg Pro Ser Val Glu Phe Pro Gly Asn Leu Tyr Arg Gly Glu 70 Gly Ile Val Tyr Gly Thr Leu Glu Glu Val Trp Asp Cys Val Lys Pro 85 90 95 Ala Val Gly Gly Leu Arg Val Lys Trp Asp Glu Asn Val Thr Gly Phe 100 105 Glu Ile Ile Gln Ser Ile Thr Asp Thr Leu Cys Val Ser Arg Thr Ser 120 Thr Pro Ser Ala Ala Met Lys Leu Ile Ser Pro Arg Asp Phe Val Asp 130 135 Leu Val Leu Val Lys Arg Tyr Glu Asp Gly Thr Ile Ser Ser Asn Ala 155 Thr His Val Glu His Pro Leu Cys Pro Pro Lys Pro Gly Phe Val Arg 165 170 Gly Phe Asn His Pro Cys Gly Cys Phe Cys Glu Pro Leu Pro Gly Glu 185 Pro Thr Lys Thr Asn Leu Val Thr Phe Phe His Thr Asp Leu Ser Gly 195 200 Tyr Leu Pro Gln Asn Val Val Asp Ser Phe Phe Pro Arg Ser Met Thr 210 215

Arg Phe Tyr Ala Asn Leu Gln Lys Ala Val Lys Gln Phe His Glu 225 230 235

<210> 5799

<211> 66

<212> PRT

<213> Homo sapiens

<400> 5799

Ala Tyr Thr Thr Met Thr Glu Asn Lys Arg Leu Phe Phe Glu Thr Pro 1 5 10 15

Ser Gln Lys Gln Asn Lys Thr Lys Lys Leu Asp Lys Cys Tyr Ile Asn 20 25 30

Val Trp Val Val Arg Phe Tyr Phe Glu Ser Glu Val Cys Arg Tyr Ala
35 40 45

Tyr Arg Phe Leu Glu Phe Thr Thr Phe Leu Phe Cys Ile Ile Asn Val

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55
                                              60
    50
Ile Phe
65
<210> 5800
<211> 173
<212> PRT
<213> Homo sapiens
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Arg His Glu Asp Phe Thr Asp Thr Ala Tyr Leu Phe Lys Ile Gln Ile
                  5
                                      10
                                                           15
  1
Glu Ser Leu Asn Asp Lys Leu Gln Asn Ala Lys Glu Gln Leu Arg Glu
             20
Lys Glu Phe Ile Met Leu Gln Asn Glu Gln Glu Ile Ser Gln Leu Lys
                                                   45
         35
                              40
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Lys Glu Ile Glu Arg Thr Xaa Gln Arg Met Lys Glu Met Xaa Ser Val 55 Met Lys Glu Gln Glu Gln Tyr Ile Ala Thr Gln Tyr Lys Glu Ala Ile 70 75 Asp Leu Gly Gln Glu Leu Arg Leu Thr Arg Glu Gln Val Gln Asn Ser 90 His Thr Glu Leu Ala Glu Ala Arg His Gln Gln Val Gln Ala Gln Arg 100 105 Glu Ile Glu Arg Leu Ser Ser Glu Leu Glu Asp Met Lys Gln Leu Ser 115 120 Lys Glu Lys Asp Ala His Gly Asn His Leu Ala Glu Glu Leu Gly Ala 140 Ser Lys Gly Arg Glu Ala Tyr Leu Glu Ala Arg Met Gln Ala Glu Ile 145 150 155 Lys Lys Leu Xaa Xaa Xaa Val Xaa Ile Ser Ser Lys Lys

165 170

<210> 5801 <211> 719 <212> PRT <213> Homo sapiens <220> <221> SITE

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5801

<222> (302)

Phe Lys Val Ile Phe Leu Leu Gln Asp Gly Ile Val Asn Pro Thr Ile
1 5 10 15

Arg Lys Asp Leu Lys Thr Gly Pro Lys Phe Tyr Cys Cys Pro Ile Glu 20 25 30

Gly Cys Pro Arg Gly Pro Glu Arg Pro Phe Ser Gln Phe Ser Leu Val

Lys Gln His Phe Met Lys Met His Ala Glu Lys Lys His Lys Cys Ser 50 55 60

Lys Cys Ser Asn Ser Tyr Gly Thr Glu Trp Asp Leu Lys Arg His Ala

65					70					75					80
Glu	Asp	Cys	Gly	Lys 85	Thr	Phe	Arg	Cys	Thr 90	Cys	Gly	Cys	Pro	Tyr 95	Ala
Ser	Arg	Thr	Ala 100	Leu	Gln	Ser	His	Ile 105	Tyr	Arg	Thr	Gly	His 110	Glu	Ile
Pro	Ala	Glu 115	His	Arg	Asp	Pro	Pro 120	Ser	Lys	Lys	Arg	Lys 125	Met	Glu	Asn
Cys	Ala 130	Gln	Asn	Gln	Lys	Leu 135	Ser	Asn	Lys	Thr	Ile 140	Glu	Ser	Leu	Asn
Asn 145	Gln	Pro	Ile	Pro	Arg 150	Pro	Asp	Thr	Gln	Glu 155	Leu	Glu	Ala	Ser	Glu 160
Ile	Lys	Leu	Glu	Pro 165	Ser	Phe	Glu	Asp	Ser 170	Суз	Gly	Ser	Asn	Thr 175	Asp
Lys	Gln	Thr	Leu 180	Thr	Thr	Pro	Pro	Arg 185	Tyr	Pro	Gln	Lys	Leu 190	Leu	Leu
Pro	Lys	Pro 195	Lys	Val	Ala	Leu	Val 200	Lys	Leu	Pro	Val	Met 205	Gln	Phe	Ser
Val	Met 210	Pro	Val	Phe	Val	Pro 215	Thr	Ala	Asp	Ser	Ser 220	Ala	Gln	Pro	Val
Val 225	Leu	Gly	Val	Asp	Gln 230	Gly	Ser	Ala	Thr	Gly 235	Ala	Val	His	Leu	Met 240
Pro	Leu	Ser	Val	Gly 245	Thr	Leu	Ile	Leu	Gly 250	Leu	Asp	Ser	Glu	Ala 255	Cys
Ser	Leu	Lys	Glu 260	Ser	Leu	Pro	Leu	Phe 265	Lys	Ile	Ala	Asn	Pro 270	Ile	Ala
Gly	Glu	Pro 275	Ile	Ser	Thr	Gly	Val 280	Gln	Val	Asn	Phe	Gly 285	Lys	Ser	Pro
Ser	Asn 290	Pro	Leu	Gln	Glu	Leu 295	Gly	Asn	Thr	Суѕ	Gln 300		Xaa	Ser	Ile
Ser 305	Ser	Ile	Asn	Val	Gln 310	Thr	Asp	Leu	Ser	Tyr 315	Ala	Ser	Gln	Asn	Phe 320
Ile	Pro	Ser	Ala	Gln 325	Trp	Ala	Thr	Ala	Asp 330		Ser	Val	Ser	Ser 335	Суѕ
Ser	Gln	Thr	Asp	Leu	Ser	Phe	Asp	Ser	Gln	Val	Ser	Leu	Pro	Ile	Ser

			340					345					350		
Val	His	Thr 355	Gln	Thr	Phe	Leu	Pro 360	Ser	Ser	Lys	Val	Thr 365	Ser	Ser	Ile
Ala	Ala 370	Gln	Thr	Asp	Ala	Phe 375	Met	Asp	Thr	Cys	Phe 380	Gln	Ser	Gly	Gly
Val 385	Ser	Arg	Glu	Thr	Gln 390	Thr	Ser	Gly	Ile	Glu 395	Ser	Pro	Thr	Asp	Asp 400
His	Va1	Gln	Met	Asp 405	Gln	Ala	Gly	Met	Cys 410	Gly	Asp	Ile	Phe	Glu 415	Ser
Val	His	Ser	Ser 420	Tyr	Asn	Val	Ala	Thr 425	Gly	Asn	Ile	Ile	Ser 430	Asn	Ser
Leu	.Val	Ala 435	Glu	Thr	Val	Thr	His 440	Ser	Leu	Leu	Pro	Gln 445	Asn	Glu	Pro
Lys	Thr 450	Leu	Asn	Gln	Asp	Ile 455	Glu	Lys	Ser	Ala	Pro 460	Ile	Ile	Asn	Phe
Ser 465	Ala	Gln	Asn	Ser	Met 470	Leu	Pro	Ser	Gln	Asn 475	Met	Thr	Asp	Àsn	Gln 480
Thr	Gln	Thr	Ile	Asp 485	Leu	Leu	Ser	Asp	Leu 490	Glu	Asn	Ile	Leu	Ser 495	Ser
Asn	Leu	Pro	Ala 500	Gln	Thr	Leu	Asp	His 505	Arg	Ser	Leu	Leu	Ser 510	Asp	Thr
Asn	Pro	Gly 515	Pro	Asp	Thr	Gln	Leu 520	Pro	Ser	Gly	Pro	Ala 525	Gln	Asn	Pro
Gly	Ile 530	Asp	Phe	Asp	Ile	Glu 535	Glu	Phe	Phe	Ser	Ala 540	Ser	Asn	Ile	Gln
Thr 545	Gln	Thr	Glu	Glu	Ser 550	Glu	Leu	Ser	Thr	Met 555	Thr	Thr	Glu	Pro	Val 560
Leu	Glu	Ser	Leu	Asp 565	Ile	Glu	Thr	Gln	Thr 570	Asp	Phe	Leu	Leu	Ala 575	Asp
Thr	Ser	Ala	Gln 580	Ser	Tyr	Gly	Cys	Arg 585	Gly	Asn	Ser	Asn	Phe 590	Leu	Gly
Leu	Glu	Met 595	Phe	Asp	Thr	Gln	Thr 600	Gln	Thr	Asp	Leu	Asn 605	Phe	Phe	Leu
Asp	Ser	Ser	Pro	His	Leu	Pro	Leu	Gly	Ser	Ile	Leu	Lys	His	Ser	Ser

5091

620 615 610 Phe Ser Val Ser Thr Asp Ser Ser Asp Thr Glu Thr Glu Gly 635 625 630 Val Ser Thr Ala Lys Asn Ile Pro Ala Leu Glu Ser Lys Val Gln Leu 645 650 Asn Ser Thr Glu Thr Gln Thr Met Ser Ser Gly Phe Glu Thr Leu Gly 665 Ser Leu Phe Phe Thr Ser Asn Glu Thr Gln Thr Ala Met Asp Asp Phe 680 685 675 Leu Leu Ala Asp Leu Ala Trp Asn Thr Met Glu Ser Gln Phe Ser Ser 695 700 Val Glu Thr Gln Thr Ser Ala Glu Pro His Thr Val Ser Asn Phe 715 710 <210> 5802 <211> 56 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (3) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (6) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (36) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (50) <223> Xaa equals any of the naturally occurring L-amino acids <400> 5802 Asn Ser Xaa Met Gln Xaa Pro Glu Trp His Phe Ala Thr Leu Ser His 5 10

5092

Ala Leu Ile Ala Phe Gln Asn Glu Ser Tyr Leu Arg Gln Leu Leu Trp 20 25 30

Val Lys Ser Xaa Leu Tyr Ser Arg Val Arg Leu Leu Gly Val Cys Leu 35 40 45

Tyr Xaa Lys Arg Gly Gly Leu Ser 50 55

<210> 5803

<211> 60

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5803

Ser Val Ala Cys Lys Glu Lys Lys Met Ala Ser Asp Ile Trp Tyr Lys

1 5 10 15

Leu Leu Asn Arg Ile Ile Arg Ala Ser Phe Val Lys Pro Ala Phe Lys
20 25 30

Cys Trp Thr Ala Ser Lys Ser Val Cys Phe Xaa Ser Ser Val Pro Tyr 35 40 45

Thr Lys Lys Gln Leu Leu Pro Ser Tyr Tyr Ile Cys
50 55 60

<210> 5804

<211> 55

<212> PRT

<213> Homo sapiens

<400> 5804

Phe Thr Gln Tyr Gly Ala Ala Cys Phe Cys Asp Phe Lys Ile Asp Gln
1 5 10 15

Gly Thr Phe Ala Phe Glu Glu Arg Asn Phe Leu Gly Leu Val Thr Arg
20 25 30

Ala Val Asp Val Pro Lys Ser Lys Asp Val Cys Cys Pro Trp Val Ser 35 40 45

5093

His Cys Arg Phe Ile Thr Trp 50 55

<210> 5805

<211> 367

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (358)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5805

Ala Arg Gln Thr Gly Leu Glu Asp Pro Leu Arg Leu Arg Arg Ala Glu

1 5 10 15

Ser Thr Arg Arg Val Leu Gly Leu Glu Leu Asn Lys Asp Arg Asp Val
20 25 30

Glu Arg Ile His Gly Gly Gly Ile Asn Thr Leu Asp Ile Glu Pro Val 35 40 45

Glu Gly Arg Tyr Met Leu Ser Gly Gly Ser Asp Gly Val Ile Val Leu 50 55 60

Tyr Asp Leu Glu Asn Ser Ser Arg Gln Ser Tyr Tyr Thr Cys Lys Ala 65 70 75 80

Val Cys Ser Ile Gly Arg Asp His Pro Asp Val His Arg Tyr Ser Val
85 90 95

Glu Thr Val Gln Trp Tyr Pro His Asp Thr Gly Met Phe Thr Ser Ser 100 105 110

Ser Phe Asp Lys Thr Leu Lys Val Trp Asp Thr Asn Thr Leu Gln Thr 115 120 125

Ala Asp Val Phe Asn Phe Glu Glu Thr Val Tyr Ser His His Met Ser 130 135 140

Pro Val Ser Thr Lys His Cys Leu Val Ala Val Gly Thr Arg Gly Pro 145 150 155 160

Lys Val Gln Leu Cys Asp Leu Lys Ser Gly Ser Cys Ser His Ile Leu 165 170 175

Gln Gly His Arg Gln Glu Ile Leu Ala Val Ser Trp Ser Pro Arg Tyr 180 185 190

Asp Tyr Ile Leu Ala Thr Ala Ser Ala Asp Ser Arg Val Lys Leu Trp 195 200 205 Asp Val Arg Arg Ala Ser Gly Cys Leu Ile Thr Leu Asp Gln His Asn 215 Gly Lys Lys Ser Gln Ala Val Glu Ser Ala Asn Thr Ala His Asn Gly 230 235 Lys Val Asn Gly Leu Cys Phe Thr Ser Asp Gly Leu His Leu Leu Thr 245 250 Val Gly Thr Asp Asn Arg Met Arg Leu Trp Asn Ser Ser Asn Gly Glu 260 265 Asn Thr Leu Val Asn Tyr Gly Lys Val Cys Asn Asn Ser Lys Lys Gly 280 Leu Lys Phe Thr Val Ser Cys Gly Cys Ser Ser Glu Phe Val Phe Val 290 295 Pro Tyr Gly Ser Thr Ile Ala Val Tyr Thr Val Tyr Ser Gly Glu Gln 310 315 Ile Thr Met Leu Lys Gly His Tyr Lys Thr Val Asp Cys Cys Val Phe 325 330 Gln Ser Asn Phe Gln Val Leu Tyr Ser Gly Ser Arg Asp Cys Asn Ile 345 Leu Ala Trp Val Pro Xaa Leu Tyr Glu Pro Val Pro Asp Asp Gly 355 360 <210> 5806 <211> 72 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (3) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (28) <223> Xaa equals any of the naturally occurring L-amino acids

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<220>
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<222> (51)
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Lys Lys Xaa Gly Leu Asn Arg Pro Pro Phe Gly Ala Gln Arg Arg Val
                                     10
Leu Thr Pro Arg Gly Gly Phe Pro Pro Gly Gly Xaa Lys Ile Phe Ser
                                 25
             20
Pro Pro Pro Gly Gly Gly Phe Pro Gly Lys Pro Pro Pro Lys Thr Gly
                             40
Ala Arg Xaa Phe Pro Pro Gly Gly Pro Phe Pro Lys Phe Phe Phe
                                              60
     50
                         55
Ala Gln Asn Xaa Ser Gln Lys Ile
 65
                     70
<210> 5807
<211> 125
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (45)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5807
His Gly Val Arg Arg Arg Leu Arg Val Thr Arg Gln Arg Ala Thr Ala
                                      10
Leu Val Gln Ser Ala Arg Val Arg Arg Trp Lys Arg Ser Arg Arg Asn
                                  25
Pro Gln Ile Ala Pro Phe Pro Arg Asp Leu Ser Gly Xaa Arg Ala Thr
                              40
Ala Gln Pro Arg Ala Pro Ala Leu Arg Pro Arg His Thr Pro Gln Ser
     50
                          55
```

5096

Ser Ser Ser Gly Ser Ala Pro Thr Pro Arg Arg Asp Gln Pro Ala Arg 65 70 75 80

Gly Gly Leu Thr Ala Pro Ser Ser Gln Glu Gly Thr Gln Arg Thr Thr
85 90 95

Glu Pro His Ser Ala Pro Arg Ser Pro Leu Trp Leu Leu Ala Ser Arg 100 105 110

Pro Thr Arg Ala Ala Met Val Thr Ser Pro Pro Pro Leu 115 120 125

<210> 5808

<211> 227

<212> PRT

<213> Homo sapiens

<400> 5808

Lys Met Asp Trp Gly Thr Leu Gln Thr Ile Leu Gly Gly Val Asn Lys

1 5 10 15

His Ser Thr Ser Ile Gly Lys Ile Trp Leu Thr Val Leu Phe Ile Phe 20 25 30

Arg Ile Met Ile Leu Val Val Ala Ala Lys Glu Val Trp Gly Asp Glu
35 40 45

Gln Ala Asp Phe Val Cys Asn Thr Leu Gln Pro Gly Cys Lys Asn Val
50 55 60

Cys Tyr Asp His Tyr Phe Pro Ile Ser His Ile Arg Leu Trp Ala Leu 65 70 75 80

Gln Leu Ile Phe Val Ser Thr Pro Ala Leu Leu Val Ala Met His Val . 85 90 95

Ala Tyr Arg Arg His Glu Lys Lys Arg Lys Phe Ile Lys Gly Glu Ile 100 105 110

Lys Ser Glu Phe Lys Asp Ile Glu Glu Ile Lys Thr Gln Lys Val Arg 115 120 125

Ile Glu Gly Ser Leu Trp Trp Thr Tyr Thr Ser Ser Ile Phe Phe Arg 130 135 140

Val Ile Phe Glu Ala Ala Phe Met Tyr Val Phe Tyr Val Met Tyr Asp 145 150 155 160

Gly Phe Ser Met Gln Arg Leu Val Lys Cys Asn Ala Trp Pro Cys Pro

5097

165 170 175 Asn Thr Val Asp Cys Phe Val Ser Arg Pro Thr Glu Lys Thr Val Phe 180 185 Thr Val Phe Met Ile Ala Val Ser Gly Ile Cys Ile Leu Leu Asn Val Thr Glu Leu Cys Tyr Leu Leu Ile Arg Tyr Cys Ser Gly Lys Ser Lys 215 Lys Pro Val 225 <210> 5809 <211> 213 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (65) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (72) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (75) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (80) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (86) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (166) <223> Xaa equals any of the naturally occurring L-amino acids

<400> 5809 Ala Thr Val Pro Ile Arg Pro Asn Phe Thr Gly Lys Ser Ser Tyr Arg 5 10 Val Tyr Lys Leu Pro Ile Ser Gly Glu Thr Phe Asn Arg Glu Lys Phe Arg Ser Gln Asp Trp Glu Asn Pro Thr Glu Arg Glu Asp Asp Ser Asp 40 Lys Tyr Cys Lys Leu Asn Leu Gln Gln Ser Gly Ser Phe Gln Tyr Tyr 50 Xaa Leu Gln Gly Asn Glu Lys Xaa Gly Gly Xaa Tyr Ile Val Val Xaa 70 Pro Ile Leu Arg Val Xaa Ala Asp Asn His Val Leu Pro Leu Asp Cys 90 Val Thr Leu Gln Thr Phe Leu Ala Lys Cys Leu Gly Pro Phe Asp Glu 105 Trp Glu Ser Arg Leu Arg Val Ala Lys Glu Ser Gly Tyr Asn Met Ile 115 120 His Phe Thr Pro Leu Gln Thr Leu Gly Leu Ser Arg Ser Cys Tyr Ser 135 Leu Ala Asn Gln Leu Glu Leu Asn Pro Asp Phe Ser Arg Pro Asn Arg 150 155 Lys Tyr Thr Trp Asn Xaa Val Gly Gln Leu Val Glu Lys Leu Lys Lys 165 Glu Trp Ile Val Phe Cys Ile Thr Asp Val Val Tyr Asn His Thr Ala 180 185 Ala Asn Ser Asn Cys Ile Gln Glu His Pro Glu Cys Ala Tyr Ile Leu 200 Val Ile Ser Pro His 210

<210> 5810 <211> 67 <212> PRT

<213> Homo sapiens

<220>

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<221> SITE
<222> (22)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (38)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5810
Gly Val His Tyr Cys Glu Phe Ile Ile Leu Lys Val Gly Asp Ala Lys
                                     10
Ser Thr Arg Leu Lys Xaa Tyr Glu Val Phe Ser Ser Phe Asn Ser Ile
                                 25
             20
Leu Leu Glu Lys Asn Xaa His Asn Arg Gly Ser Phe Thr Phe Pro Gln
                             40
Pro Ser Arg Leu Leu Tyr Cys Asn Val Gly Lys Ile Ala Tyr Asn Lys
                         55
                                              60
Asn Cys Ser
 65
<210> 5811
<211> 260
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (165)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (185)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (195)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5811
Val Arg Ala Gly Pro Ala Ala Ala Gly Pro Arg Pro Gly Ala Glu Arg
                  5
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5100

Lys Cys Trp Ser Leu Arg Ser Leu Arg Pro Leu Gly Gly Arg Cys Ala Trp Pro Gly Thr Ser Ala Pro Ala His Arg Pro Gly Ala Ala Glu Gly 35 Arg Pro Arg Gly Pro Val Pro Ala Glu Pro Arg Pro Cys Pro Leu Ala Leu Leu Ser Gly His Tyr Leu Tyr Tyr His Tyr Gly Cys Asp Gly Leu 70 Asp Asp Arg Gly Trp Gly Cys Gly Tyr Arg Thr Leu Gln Thr Leu Cys 85 90 Ser Trp Pro Glu Gly Gln Pro Ala Gly Val Pro Gly Leu Ala Ala Val 100 Gln Ala Ala Leu Glu Asp Met Gly Asp Lys Pro Pro Gly Phe Arg Gly 120 Ser Arg Asp Trp Ile Gly Cys Val Glu Ala Ser Leu Cys Leu Ala His 130 135 Phe Gly Gly Pro Gln Gly Arg Leu Cys His Val Pro Arg Gly Val Gly 150 155 Leu His Gly Glu Xaa Glu Arg Leu Tyr Ser His Phe Ala Gly Gly 170 Gly Pro Val Met Val Gly Gly Asp Xaa Asp Ala Arg Ser Lys Ala Leu 180 185 Leu Gly Xaa Cys Val Gly Ser Gly Thr Glu Ala Tyr Val Leu Val Leu 195 Asp Pro His Tyr Trp Gly Thr Pro Lys Ser Pro Ser Glu Leu Gln Ala 215 220 Ala Gly Trp Val Gly Trp Gln Glu Val Ser Ala Ala Phe Asp Pro Asn 230 235 Ser Phe Tyr Asn Leu Cys Leu Thr Ser Leu Ser Ser Gln Gln Gln Gln 245 250

Arg Thr Leu Asp 260

<210> 5812

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<211> 364
<212> PRT
<213> Homo sapiens
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<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (154)
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<222> (269)
<223> Xaa equals any of the naturally occurring L-amino acids
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<222> (299)
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<222> (310)
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<222> (319)
<223> Xaa equals any of the naturally occurring L-amino acids
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<222> (356)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (363)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5812
Trp Xaa Pro Arg Ala Ala Gly Ile Arg His Glu Leu Phe Gln Ala Leu
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1	•			5	5				10)				15	
Ile	Asp	ıle	e Gln 20	Glu	Phe	Туг	Glu	Val 25		Leu	Leu	Asp	Asn 30		Lys
Cys	Ile	Asp 35	Arg	Ser	Lys	Pro	Ser 40		Pro	Ile	Gln	Pro 45		Asn	Thr
Trp	Glu 50	Ile	e Ser	Ser	Leu	Pro 55		Ser	Thr	Val	Thr 60	Ser	Glu	Thr	Leu
Pro 65	Ser	Ser	Leu	Ser	Pro 70	Ser	Val	Glu	Lys	Туг 75	Arg	Tyr	Gln	Asp	Glu 80
Asp	Thr	Pro	Pro	Gln 85		His	Ile	Ser	Pro 90	Gln	Ile	Thr	Asn	Glu 95	Val
Ile	Gly	Pro	Glu 100	Leu	Val	His	Val	Ser 105	Glu	Lys	Asn	Leu	Ser 110	Glu	Ile
Glu	Asn	Val 115	His	Gly	Phe	Val	Ser 120	His	Ser	His	Ile	Ser 125	Pro	Ile	Lys
Pro	Thr 130	Glu	Ala	Val	Leu	Pro 135	Ser	Pro	Pro	Thr	Val 140	Pro	Val	Ile	Pro
Val 145	Leu	Pro	Val	Pro	Ala 150	Glu	Asn	Thr	Xaa	Ile 155	Leu	Pro	Thr	Ile	Pro 160
Gln	Ala	Asn	Pro	Pro 165	Xaa	Val	Leu	Val	Asn 170	Thr	Asp	Ser	Leu	Glu 175	Thr
Pro	Thr	Tyr	Val 180	Asn	Gly	Thr	Asp	Ala 185	Asp	Tyr	Glu	Туr	Glu 190	Glu	Ile
Thr	Leu	Glu 195	Arg	Gly	Asn	Ser	Gly 200	Leu	Gly	Phe	Ser	Ile 205	Ala	Gly	Gly
Thr	Asp 210	Asn	Pro	His	Ile	Gly 215	Asp	Asp	Ser	Ser	Ile 220	Phe	Ile	Thr	Lys
Ile 225	Ile	Thr	Gly	Gly	Ala 230	Ala	Ala	Gln	Asp	Gly 235	Arg	Leu	Arg	Val	Asn 240
Asp	Суѕ	Ile	Leu	Arg 245	Val	Asn	Glu	Val	Asp 250	Val	Arg	Asp	Val	Thr 255	His
Ser	Lys	Ala	Val 260	Glu	Ala	Leu	Lys	Glu 265	Ala	Gly	Ser	Xaa	Val 270	Arg	Leu
Tyr	Val	Lys	Arg	Arg	Lys	Pro	Val	Ser	Glu	Lvs	Ile	Met	Glu	Tla	Tvc

5103 275 280 285 Leu Ile Lys Gly Pro Lys Gly Leu Gly Phe Xaa Ile Ala Gly Gly Val 295 Gly Asn Gln His Ile Xaa Gly Asp Asn Ser Ile Tyr Val Thr Xaa Ile 315 Ile Glu Gly Gly Ala Ala His Lys Asp Gly Lys Leu Gln Ile Gly Asp 330 Lys Leu Leu Ala Val Asn Asn Val Cys Leu Glu Glu Val Thr His Glu 345 350 340 Glu Ala Val Xaa Ala Leu Lys Ser Thr Ser Xaa Phe 35**5** 360 <210> 5813 <211> 277 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (45) <223> Xaa equals any of the naturally occurring L-amino acids <400> 5813

Val Ser Arg Lys Pro Pro Phe Val Val Ser Arg Thr Glu Gly Tyr Ile 25

Gly Val Leu Ile Asp Asp Leu Thr Thr Leu Gly Thr Xaa Glu Pro Tyr 35 40

Arg Met Phe Thr Ser Arg Val Glu Phe Arg Leu Ser Leu Arg Pro Asp

Asn Ala Asp Ser Arg Leu Thr Leu Arg Gly Tyr Lys Asp Ala Gly Cys 70

Val Ser Gln Gln Arg Tyr Glu Arg Ala Cys Trp Met Lys Ser Ser Leu 90

Glu Glu Gly Ile Ser Val Leu Lys Ser Ile Glu Phe Leu Ser Ser Lys 100 105

5104

Trp Lys Lys Leu Ile Pro Glu Ala Ser Ile Ser Thr Ser Arg Ser Leu 115 120 125

Pro Val Arg Ala Leu Asp Val Leu Lys Tyr Glu Glu Val Asp Met Asp 130 135 140

Ser Leu Ala Lys Ala Val Pro Glu Pro Leu Lys Lys Tyr Thr Lys Cys 145 150 155 160

Arg Glu Leu Ala Glu Arg Leu Lys Ile Glu Ala Thr Tyr Glu Ser Val 165 170 175

Leu Phe His Gln Leu Gln Glu Ile Lys Gly Val Gln Gln Asp Glu Ala 180 185 190

Leu Gln Leu Pro Lys Asp Leu Asp Tyr Leu Thr Ile Arg Asp Val Ser 195 200 205

Leu Ser His Glu Val Arg Glu Lys Leu His Phe Ser Arg Pro Gln Thr 210 215 220

Ile Gly Ala Ala Ser Arg Ile Pro Gly Val Thr Pro Ala Ala Ile Ile 225 230 235 240

Asn Leu Leu Arg Phe Val Lys Thr Thr Gln Arg Arg Gln Ser Ala Met 245 250 255

Asn Glu Ser Ser Lys Thr Asp Gln Tyr Leu Cys Asp Ala Asp Arg Leu 260 265 270

Gln Glu Arg Glu Leu 275

<210> 5814

<211> 36

<212> PRT

<213> Homo sapiens

<400> 5814

Ile Phe His Arg Val Leu Leu Cys Asp Leu Asn Phe Ser Leu Gly Pro
1 5 10 15

Ala Ser Asp Ile Val Gly Gly Leu Ser Trp Phe Gln Glu Ile Arg Leu 20 25 30

Ala Phe Ser Ser

5105

<210> 5815 <211> 160 <212> PRT <213> Homo sapiens <400> 5815 Ala Gly Ser Gln Glu Ser Ala Lys Ala Leu Met Ile Arg Glu Lys Tyr 10 Ala Gly Ser Pro Thr His Leu Pro Ala Asp His Ile Pro Val Pro Gly 25 Ser Ser Arg Ala Asp Thr Ala Pro Pro Glu Glu Gly Leu Pro Asp Phe 35 40 His Pro Pro Pro Leu Pro Gln Glu Asp Pro Tyr Cys Leu Asp Asp Ala Pro Pro Asn Leu Asp Tyr Leu Val His Met Gln Gly Gly Ile Leu Phe 70 Val Tyr Asp Asn Lys Lys Met Leu Glu His Gln Glu Pro His Ser Leu 85 90 Pro Tyr Pro Asp Leu Glu Thr Tyr Thr Val Asp Met Ser His Ile Leu 105 100 Ala Leu Ile Thr Asp Gly Pro Thr Lys Thr Tyr Cys His Arg Arg Leu 120 Asn Phe Leu Glu Ser Lys Phe Ser Leu His Glu Met Leu Asn Glu Met 135 Ser Glu Phe Lys Glu Leu Lys Ser Asn Pro His Arg Asp Phe Tyr Asn 145 150 155 160

<210> 5816 <211> 71 <212> PRT <213> Homo sapiens

<400> 5816

Lys Thr Lys Tyr Leu Leu Trp Asp Lys Ile Leu Tyr Ala Tyr Leu Glu
1 5 10 15

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Tyr Trp Glu Asp Gly Lys Glu Tyr Lys Glu Lys Asn Asn Cys Thr Pro
His Ser Arg His Asn Leu Leu Phe Thr Ser Leu Gly Cys Ile Ser Ile
          35
                              40
 Pro Thr Arg Trp Asn His Leu Tyr Val Tyr Leu Ile Arg Ile Met Leu
His Thr Val Leu Phe Pro Ser
                      70
<210> 5817
<211> 23
<212> PRT
<213> Homo sapiens
<400> 5817
Lys Lys Ala Trp Glu Pro Val Cys Phe Glu Arg Thr Asp Asp Ile Gly
                                      10
Arg Ala Leu Glu Val Pro Gly
<210> 5818
<211> 155
<212> PRT
<213> Homo sapiens
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<223> Xaa equals any of the naturally occurring L-amino acids
<220>
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<222> (48)
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PCT/US00/26524 WO 01/22920

5107

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<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5818
Pro His Pro Thr Xaa Trp Xaa Gln Leu Glu Glu Xaa Cys Arg Arg Leu
Ala Glu Val Ser Lys Pro Pro Lys Gln Arg Cys Cys Val Ala Ser Gln
                                                     30
             20
Gln Arg Asp Arg Asn His Ser Ala Thr Val Gln Thr Gly Ala Thr Xaa
                             40
                                                 45
         35
Phe Ser Asn Pro Ser Leu Ala Pro Glu Asp His Lys Glu Pro Lys Lys
Leu Ala Gly Val His Ala Leu Gln Ala Ser Glu Leu Val Val Thr Tyr
                     70
                                         75
Phe Phe Cys Gly Glu Glu Ile Pro Tyr Arg Arg Met Leu Lys Ala Gln
                 85
Ser Leu Thr Leu Gly His Phe Lys Glu Gln Leu Ser Lys Lys Gly Asn
                                105
Tyr Arg Tyr Tyr Phe Lys Lys Ala Ser Asp Glu Phe Ala Cys Gly Ala
                            120
Val Phe Glu Glu Ile Trp Glu Asp Glu Thr Val Leu Pro Met Tyr Glu
    130
Gly Arg Ile Leu Gly Lys Val Glu Arg Ile Asp
                    150
145
<210> 5819
<211> 317
<212> PRT
<213> Homo sapiens
<220>
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<222> (20)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (113)
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<223> Xaa equals any of the naturally occurring L-amino acids

<220>

5108

<221> SITE <222> (116) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (245) <223> Xaa equals any of the naturally occurring L-amino acids <400> 5819 Met Asn Lys Leu Asn Glu Leu Glu Lys Ile Cys Glu Ile Leu Gln Ala 10 Glu Lys Tyr Xaa Leu Val Thr Glu Leu Asn Asp Ser Arg Ser Glu Cys 20 Ile Thr Ala Thr Arg Lys Met Ala Glu Glu Val Gly Lys Leu Leu Asn 40 Glu Val Lys Ile Leu Asn Asp Asp Ser Gly Leu Leu His Gly Glu Leu 55 Val Glu Asp Ile Pro Gly Gly Glu Phe Gly Glu Gln Pro Asn Glu Gln 65 70 75 His Pro Val Ser Leu Ala Pro Leu Asp Glu Ser Asn Ser Tyr Glu His 85 Leu Thr Leu Ser Asp Lys Glu Val Gln Met His Phe Ala Glu Leu Gln 105 Xaa Lys Phe Xaa Ser Leu Gln Ser Glu His Lys Ile Leu His Asp Gln 115 120 His Cys Gln Met Ser Ser Lys Met Ser Glu Leu Gln Thr Tyr Val Asp 130 135 Ser Leu Lys Ala Glu Asn Leu Val Leu Ser Thr Asn Leu Arg Asn Phe 150 Gln Gly Asp Leu Val Lys Glu Met Gln Leu Gly Leu Glu Glu Gly Leu 170 Val Pro Ser Leu Ser Ser Ser Cys Val Pro Asp Ser Ser Ser Leu Ser 180 Ser Leu Gly Asp Ser Ser Phe Tyr Arg Ala Leu Leu Glu Gln Thr Gly 200 205 Asp Met Ser Leu Leu Ser Asn Leu Glu Gly Ala Val Ser Ala Asn Gln 215

5109

Cys Ser Val Asp Glu Val Phe Cys Ser Ser Leu Gln Glu Glu Asn Leu 235 Thr Arg Lys Glu Xaa Pro Ser Ala Pro Ala Lys Gly Val Glu Glu Leu 250 245 Glu Ser Leu Cys Glu Val Tyr Arg Gln Ser Leu Glu Lys Leu Glu Glu 260 265 Lys Met Glu Ser Gln Gly Ile Met Lys Asn Lys Glu Ile Gln Glu Leu 280 Glu Gln Leu Leu Ser Ser Glu Gly Lys Ser Leu Thr Ala Leu Gly Ala 300 290 295 Val Phe Val Arg His Asp Ser Gly Thr Glu Leu Thr Ala 310 <210> 5820 <211> 55 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (13) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (52) <223> Xaa equals any of the naturally occurring L-amino acids Pro Asn Trp Glu Lys Lys Cys Ile Arg Leu Ala Leu Xaa Thr Arg Glu Gln His Ile Arg Arg Asp Lys Ala Thr Ser Asn Ile Cys Thr Ala Gln

25

45

Ala Leu Leu Ala Asn Met Ala Ala Met Phe Ala Ile Tyr His Gly Ser

40

His Gly Leu Xaa His Ile Ala

35

5110

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<210> 5821
<211> 70
<212> PRT
<213> Homo sapiens
<400> 5821
Asn Gln Asn Lys Gly Gln Tyr Arg Lys Tyr His Gly Val Tyr Asn Lys
Leu Asn Phe Trp Leu Pro Ile Gln Thr Gly Leu Asn Gly Met Phe Ile
                                 25
Leu Asn Lys Glu Phe Ala Met Asp Lys Ile Tyr Leu Ala Tyr Cys Glu
        35
                             40
Leu Glu Val Arg Pro Ala Val Thr Leu Val Phe Pro His Ser Met Glu
                         55
                                             60
Glu Glu Glu Arg Lys Thr
 65
<210> 5822
<211> 465
<212> PRT
<213> Homo sapiens
<400> 5822
Ala Gly Glu Lys Leu Leu Lys Asp Cys Val Leu Leu His Leu Pro Cys
                                     10
Ala Arg Ser Pro Pro Val Ser His Ser Val Thr Met Val Gln Trp Lys
                                 25
Arg Leu Cys Gln Leu His Tyr Leu Trp Ala Leu Gly Cys Tyr Met Leu
         35
                             40
                                                 45
Leu Ala Thr Val Ala Leu Lys Leu Ser Phe Arg Leu Lys Cys Asp Ser
     50
Asp His Leu Gly Leu Glu Ser Arg Glu Ser Gln Ser Gln Tyr Cys Arg
                                         75
Asn Ile Leu Tyr Asn Phe Leu Lys Leu Pro Ala Lys Arg Ser Ile Asn
```

Leu Asn Asn Leu Glu Val Lys Lys Lys Arg Glu Pro Phe Thr Asp Thr

Cys Ser Gly Val Thr Arg Gly Asp Gln Glu Ala Val Leu Gln Ala Ile

105

90

110

85

		115					120					125			
His	Туг 130	Leu	Ser	Leu	Thr	Arg 135	Asp	Cys	Glu	His	Phe 140	Lys	Ala	Glu	Arg
Lys 145	Phe	Ile	Gln	Phe	Pro 150	Leu	Ser	Lys	Glu	Glu 155	Val	Glu	Phe	Pro	Ile 160
Ala	Tyr	Ser	Met	Val 165	Ile	His	Glu	Lys	Ile 170	Glu	Asn	Phe	Glu	Arg 175	Leu
Leu	Arg	Ala	Val 180	Tyr	Ala	Pro	Gln	Asn 185	Ile	Tyr	Сув	Val	His 190	Val	Asp
Glu	Lys	Ser 195	Pro	Glu	Thr	Phe	Lys 200	Glu	Ala	Val	Lys	Ala 205	Ile	Ile	Ser
Cys	Phe 210	Pro	Asn	Val	Phe	Ile 215	Ala	Ser	Lys	Leu	Val 220	Arg	Val	Val	Tyr
Ala 225	Ser	Trp	Ser	Arg	Val 230	Gln	Ala	Asp	Leu	Asn 235	Суѕ	Met	Glu	Asp	Leu 240
Leu	Gln	Ser	Ser	Val 245	Pro	Trp	Lys	Tyr	Phe 250	Leu	Asn	Thr	Cys	Gly 255	Thr
Asp	Phe	Pro	Ile 260	Lys	Ser	Asn	Ala	Glu 265	Met	Val	Gln	Ala	Leu 270	Lys	Met
Leu	Asn	Gly 275	Arg	Asn	Ser	Met	Glu 280	Ser	Glu	Val	Pro	Pro 285	Lys	His	Lys
Glu	Thr 290	Arg	Trp	Lys	Tyr	His 295	Phe	Glu	Val	Val	Arg 300	Asp	Thr	Leu	His
Leu 305	Thr	Asn	Lys	Lys	Lys 310		Pro	Pro	Pro	Туr 315		Leu	Thr	Met	Phe 320
Thr	Gly	Asn	Ala	Туr 325	Ile	Val	Ala	Ser	Arg 330		Phe	Val	Gln	His 335	Val
Leu	Lys	Asn	Pro 340		Ser	Gln	Gln	Leu 345		Glu	Trp	Val	Lys 350	Asp	Thr
Tyr	Ser	Pro 355	_	Glu	His	Leu	Trp 360		Thr	Leu	Gln	Arg 365		Arg	Trp
Met	Pro 370		Ser	Val	Pro	Asn 375		Pro	Lys	Tyr	Asp 380		: Ser	Asp	Met
Thr	Ser	Ile	Ala	Arg	Leu	Val	Lys	Trp	Gln	Gly	His	Glu	Gly	Asp	Ile

385 390 395 400 Asp Lys Gly Ala Pro Tyr Ala Pro Cys Ser Gly Ile His Gln Arg Ala 405 410 Ile Cys Val Tyr Gly Ala Gly Asp Leu Asn Trp Met Leu Gln Asn His 425 His Leu Leu Ala Asn Lys Phe Asp Pro Lys Val Asp Asp Asn Ala Leu 435 440 Gln Cys Leu Glu Glu Tyr Leu Arg Tyr Lys Ala Ile Tyr Gly Thr Glu 455 460 Leu 465 <210> 5823 <211> 65 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (24) <223> Xaa equals any of the naturally occurring L-amino acids <400> 5823 His Gln Pro His Gly Ser Pro Glu Leu Cys Trp Lys Val Glu Thr Gly 10 Arg Glu Ala Ser His Gly Ser Xaa Glu Pro Asp Pro Thr Asn Gln Leu 20 25 Ile Phe Lys Arg Gln Asp Gly Gly Arg Asp His Ser Arg Glu Pro Cys 35 40 Ser Leu Phe Leu Pro Val Ala Lys Ser Gly Ala Arg Lys Ser Leu Ser 55 60 Val 65 <210> 5824 <211> 101 <212> PRT <213> Homo sapiens

<400> 5824

Asp Leu Gly Leu Glu Gly Trp Gly Met Gly Arg Glu Gly His Ser Leu
1 5 10 15

Leu Leu His Glu Ser Asp Ile Ser Glu Thr Glu Gln Leu Pro Asp Ala 20 25 30

Trp Val Arg Asn Pro Arg Pro His Leu Leu Arg Thr Gly Ser Ser Glu
35 40 45

Ser Thr Leu Arg Glu Lys Gly Glu Asn Ile Thr Ser Val Asp Ser Pro 50 55 60

Ala Thr Thr Ala Leu Glu Glu Lys Ala Ala Ala Thr Ser Gln Arg Gly 65 70 75 80

Val Lys Asp Pro Cys Pro Arg Asn Arg Ala Ala Pro Pro Ala Leu Thr 85 90 95

Pro Leu Thr Phe Ser 100

<210> 5825

<211> 62

<212> PRT

<213> Homo sapiens

<400> 5825

His Val Ser Phe Ala Leu Leu Val Phe Tyr Val Ile Ser Phe Asn Cys
1 5 10 15

Leu Leu His Leu Thr Val Tyr Ile Ile Gln Gln Phe Thr Ser Leu Asn 20 25 30

Ser Arg Trp Lys Asn Arg Cys Gln Ser Met Lys Ile Phe Pro Ser Ile 35 40 45

Ser Lys Tyr Phe Ser Arg Ile Tyr Phe Ser Lys Gln Thr Ile 50 55 60

<210> 5826

<211> 152

<212> PRT

<213> Homo sapiens

<220>

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Val Gln Arg Lys Leu Gly Phe Ala Leu Ser Asp Ile Ser Val Val Ser 25

Asn Tyr Ser Ser Glu Trp Glu Leu Asp Pro Val Lys Asp Val Leu Ile 35 40 45

5115 Leu Ser Ala Leu Arg Arg Met Leu Trp Ala Ala Asp Asp Phe Leu Glu . 50 55 60 Asp Leu Pro Phe Glu Gln Ile Gly Asn Leu Arg Glu Glu Ile Ile Asn 70 75 65 Cys Ala Gln Gly Lys Lys 85 <210> 5828 <211> 154 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (59) <223> Xaa equals any of the naturally occurring L-amino acids <400> 5828 Ala Thr Val His Pro Ala Cys Gln Ile Phe Pro His Tyr Thr Pro Ser 10 Val Ala Tyr Pro Trp Ser Pro Glu Ala His Pro Leu Ile Cys Gly Pro 25 Pro Gly Leu Asp Lys Arg Leu Leu Pro Glu Thr Pro Gly Pro Cys Tyr 35 40 Ser Asn Ser Gln Pro Val Trp Leu Cys Leu Xaa Pro Arg Gln Pro Leu 55

Glu Pro His Pro Pro Gly Glu Gly Pro Ser Glu Trp Ser Ser Asp Thr
65 70 75 80

Ala Glu Gly Arg Pro Cys Pro Tyr Pro His Cys Gln Val Cys Arg Pro
85 90 95

Ser Leu Ala Gln Arg Arg Asn Ser Arg Ser Cys Val Asn Arg Leu Cys 100 105 110

Glu Met Phe Arg Pro Ser Ser Asn Gln Glu Cys Ala Pro Asp Val Phe 115 120 125

Gly Pro Tyr Leu Ala Gln Ser Pro Ala Pro Gly Lys Gly Lys Asp His 130 135 140

Ser Lys His His Ser Phe Cys Arg Thr Ser

5116

145 150

<210> 5829

<211> 53

<212> PRT

<213> Homo sapiens

<400> 5829

Ile Phe Phe Leu Ile Ala Leu Leu Val Lys Ser Glu Lys Lys Asn Gln
1 5 10 15

Arg Arg Phe Glu Thr Gly Ala Leu Cys Ala Arg Met Thr Lys Cys Thr 20 25 30

Ser Phe Arg Val Cys Met Leu Val Asn Ser Gln Ile Tyr Leu Tyr Phe 35 40 45

Phe Ala Ser Ile Glu 50

<210> 5830

<211> 75

<212> PRT

<213> Homo sapiens

<400> 5830

Lys Asn Phe Glu Ser Thr Tyr Asn Leu Glu Pro Pro Arg Ser Thr Phe 1 5 10 15

Glu Leu Ser Tyr Leu Ser Gly Gln Lys Gln Cys Gly Ser Cys Met Tyr 20 25 30

Leu Ile Asp Val Ser Cys Leu Pro Lys Met Tyr Thr Ile Arg Leu Cys $35 \hspace{1cm} 40 \hspace{1cm} 45$

Pro Asp His Pro Gly His Met Phe Ser Gly Pro Pro Glu Val Ser Val 50 55 60

Ser Gly His Trp Ser Leu Arg Phe Gly Ser Glu 65 70 75

<210> 5831

<211> 356

<212> PRT

<213> Homo sapiens

<222	l> SI ?> (2	25)	nals.	s any	, of	the	natu	ıral]	y oc	curr	ing	L-an	ino	acid	ls
											•				
)> 58 Leu		Ser	Trp 5	Glu	Met	Ser	Ala	Ala 10	Cys	Trp	Glu	Glu	Pro 15	Trp
Gly	Leu	Pro	Gly 20	Gly	Phe	Ala	Lys	Хаа 25	Val	Leu	Val	Thr	Gly 30	Gly	Ala
Gly	Phe	Ile 35	Ala	Ser	His	Met	11e 40	Val	Ser	Leu	Val	Glu 45	Asp	Туr	Pro
Asn	Туг 50	Met	Ile	Ile	Asn	Leu 55	Asp	Lys	Leu	Asp	Туr 60	Cys	Ala	Ser	Leu
Lys 65	Asn	Leu	Glu	Thr	Ile 70	Ser	Asn	Lys	Gln	Asn 75	Tyr	Lys	Phe	Ile	Gln 80
Gly	Asp	Ile	Суз	Asp 85	Ser	His	Phe	Val	Lys 90	Leu	Leu	Phe	Glu	Thr 95	Glu
Lys	Ile	Asp	Ile 100	Val	Leu	His	Phe	Ala 105	Ala	Gln	Thr	His	Val 110	Asp	Leu
Ser	Phe	Val 115	Arg	Ala	Phe	Glu	Phe 120	Thr	Tyr	Val	Asn	Val 125	Tyr	Gly	Thr
His	Val 130	Leu	Val	Ser	Ala	Ala 135	His	Glu	Ala	Arg	Val 140	Glu	Lys	Phe	Ile
Tyr 145	Val	Ser	Thr	Asp	Glu 150	Val	Tyr	Gly	Gly	Ser 155	Leu	Asp	Lys	Glu	Phe 160
Asp	Glu	Ser	Ser	Pro 165	Lys	Gln	Pro	Thr	Asn 170	Pro	Tyr	Ala	Ser	Ser 175	Lys
Ala	Ala	Ala	Glu 180	Cys	Phe	Val	Gln	Ser 185	Tyr	Trp	Glu	Gln	Туг 190	Lys	Phe
Pro	Val	Val 195	Ile	Thr	Arg	Ser	Ser 200	Asn	Val	Туr	Gly	Pro 205	His	Gln	Туг
Pro	Glu 210	Lys	Val	Ile	Pro	Lys 215		Ile	Ser	Leu	Leu 220	Gln	His	Asn	Arg
Lys 225	_	Cys	Ile	His	Gly 230		Gly	Leu	Gln	Thr 235		Ąsn	Phe	Leu	Tyr 240

Ala Thr Asp Val Val Glu Ala Phe Leu Thr Val Leu Lys Lys Gly Lys 245 250 255 Pro Gly Glu Ile Tyr Asn Ile Gly Thr Asn Phe Glu Met Ser Val Val 265 Gln Leu Ala Lys Glu Leu Ile Gln Leu Ile Lys Glu Thr Asn Ser Glu 280 Ser Glu Met Glu Asn Trp Val Asp Tyr Val Asn Asp Arg Pro Thr Asn 290 295 Asp Met Arg Tyr Pro Met Lys Ser Glu Lys Ile His Gly Leu Gly Trp 310 315 Arg Pro Lys Val Pro Trp Lys Glu Gly Ile Lys Lys Thr Ile Glu Trp 325 330 Tyr Arg Glu Asn Phe His Asn Trp Lys Asn Val Glu Lys Ala Leu Glu 340 Pro Phe Pro Val 355 <210> 5832 <211> 52 <212> PRT <213> Homo sapiens <400> 5832 Ala Lys Thr Ser His Leu Glu Phe Gly Lys Ile Arg Ile Ser Gln Val 15 Glu His Leu Leu Asn Ala Arg Ile Val Ser Met His Phe Lys Ser Ile 20 25

Phe Asn Leu Tyr Tyr Ser Leu Ile Ile Gly Ile Met Thr Pro Glu Gln 35 40

45

Arg Gln Leu Ser 50

<210> 5833 <211> 55 <212> PRT <213> Homo sapiens

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<400> 5833
Thr Arg Met Pro Ser Lys Ala Ala Leu Met Glu Glu Ala Lys Leu Met
                                     10
Ala Ser Leu Trp His Leu Ala Ala Met Ala Phe Ile Thr Tyr Val Leu
Leu Ala Gly Met Ala Leu Gly Ile Gln Lys Arg Ser Val Pro Ser Pro
                             40
Ser Leu Thr Leu Pro Ser Leu
     50
<210> 5834
<211> 231
<212> PRT
<213> Homo sapiens
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<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
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<220>
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5121

<221 <222 <223	> (2	19)	_T uals	s any	of	the	natu	rall	у ос	curr	ing	L-an	nino	acid	ls
)> 58 Cys		Ala	Xaa 5	Ala	Pro	Ser	Val	Pro 10	Ala	Trp	Gln	Val	Leu 15	His
Xaa	His	Asn	Xaa 20	Xaa	Arg	Leu	Val	Glu 25	Phe	Ser	Ala	Phe	Leu 30	Glu	Gln
Gln	Arg	Asp 35	Pro	Asp	Ser	Туr	Asn 40	Lys	His	Leu	Phe	Val 45	His	Ile	Gly
His	Ala 50	Asn	His	Ser	Tyr	Ser 55	Asp	Pro	Leu	Leu	Glu 60	Ser	Val	Asp	Ile
Arg 65	Gln	Ile	Tyr	Asp	Lys 70	Phe	Pro	Glu	Lys	Lys 75	Gly	Gly	Leu	Lys	Glu 80
Leu	Phe	Gly	Lys	Gly 85	Pro	Gln	Asn	Ala	Xaa 90	Phe	Leu	Val	Lys	Phe 95	Trp
Ala	Asp	Leu	Asn 100	Cys	Asn	Ile	Gln	Asp 105	Asp	Ala	Gly	Ala	Phe 110	Tyr	Gly
Val	Thr	Ser 115	Gln	Tyr	Glu	Ser	Ser 120	Glu	Asn	Met	Thr	Val 125	Thr	Cys	Ser
Thr	Lys 130	Val	Cys	Ser	Phe	Gly 135	Lys	Gln	Val	Val	Xaa 140	Lys	Val	Glu	Thr
Glu 145	Tyr	Ala	Arg	Phe	Glu 150	Asn	Xaa	Arg	Phe	Val 155	Tyr	Arg	Ile	Xaa	Arg 160
Ser	Pro	Met	Cys	Glu 165		Met	Ile	Asn	Phe 170	Ile	His	Lys	Leu	Lys 175	His
Leu	Pro	Glu	Lys 180		Met	Met	Asn	Ser 185	Val	Leu	Glu	Xaa	Phe 190	Thr	Ile
Leu	Leu	Xaa 195		Thr	Xaa	Arg	Asp 200	Thr	Xaa	Xaa	Thr	Leu 205		Cys	Met
Ala	Cys 210	Val	Phe	Glu	Val	Ser 215	Asn	Xaa	Glu	Xaa	Gly 220		Gln	His	His
Ile	Tyr	Arg	Leu	Val	Lys	Asp									

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<210> 5835
<211> 57
<212> PRT
<213> Homo sapiens
<400> 5835
Ala Asp Leu Arg Glu Gln Arg Gly Leu Arg Gln Ala Thr Asp His Gln
Glu Leu Val Glu Ile Pro Thr Arg Pro Leu Leu Thr Lys Leu Ser Leu
                                 25
Ile Thr Ala Pro Arg Arg Gly Glu Arg Ala Pro Val Pro Leu Arg Ala
                             40
Gly Gly His Ser Thr Gly Asp Thr Ala
                         55
<210> 5836
<211> 56
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (21)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5836
Ile Ala His Tyr Phe Leu Tyr Arg Tyr Leu Lys Lys Thr Val Tyr Gly
                                     10
Leu His Phe Phe Xaa Cys His Ile Gly Leu Met Leu Leu Ser Asn Gly
                                 25
Gly Ala Arg Ser His His Ser Leu Ser Pro Gln Ile Asp Phe Val Pro
         35
                             40
                                                 45
Pro Ser Asn Lys Leu Ser Lys Ser
     50
                         55
<210> 5837
<211> 555
<212> PRT
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<213> Homo sapiens

)> 58 Tyr		Ser	Glu 5	Phe	Pro	Gly	Arg	Pro 10	Thr	Arg	Pro	Ala	Val 15	Thr
Ala	Thr	Ala	Ala 20	Ser	Asp	Arg	Met	Glu 25	Ser	Asp	Ser	Asp	Ser 30	Asp	Lys
Ser	Ser	Asp 35	Asn	Ser	Gly	Leu	Lys 40	Arg	Lys	Thr	Pro	Ala 45	Leu	Lys	Met
Ser	Val 50	Ser	Lys	Arg	Ala	Arg 55	Lys	Ala	Ser	Ser	Asp 60	Leu	Asp	Gln	Ala
Ser 65	Val	Ser	Pro	Ser	Glu 70	Glu	Glu	Asn	Ser	Glu 75	Ser	Ser	Ser	Glu	Ser 80
Glu	Lys	Thr	Ser	Asp 85	Gln	Asp	Phe	Thr	Pro 90	Glu	Lys	Lys	Ala	Ala 95	Val
Arg	Ala	Pro	Arg 100	Arg	Gly	Pro	Leu	Gly 105	Gly	Arg	Lys	Lys	Lys 110	Lys	Ala
Pro	Ser	Ala 115	Ser	Asp	Ser	Asp	Ser 120	Lys	Ala	Asp	Ser	Asp 125	Gly	Ala	Lys
Pro	Glu 130	Pro	Val	Ala	Met	Ala 135	Arg	Ser	Ala	Ser	Ser 140	Ser	Ser	Ser	Ser
Ser 145	Ser	Ser	Ser	Asp	Ser 150	Asp	Val	Ser	Val	Lys 155	Lys	Pro	Pro	Arg	Gly 160
Arg	Lys	Pro	Ala	Glu 165	Lys	Pro	Leu	Pro	Lys 170	Pro	Arg	Gly	Arg	Lys 175	Pro
Lys	Pro	Glu	Arg 180	Pro	Pro	Ser	Ser	Ser 185	Ser	Ser	Asp	Ser	Asp 190	Ser	Asp
Glu	Val	Asp 195	Arg	Ile	Ser	Glu	Trp 200	Lys	Arg	Arg	Asp	Glu 205	Ala	Arg	Arg
Arg	Glu 210	Leu	Glu	Ala	Arg	Arg 215	Arg	Arg	Glu	Gln	Glu 220	Glu	Glu	Leu	Arg
Arg 225	Leu	Arg	Glu	Gln	Glu 230	Lys	Glu	Glu	Lys	Glu 235		Arg	Arg	Glu	Arg 240
Ala	Asp	Arg	Gly	Glu 245	Ala	Glu	Arg	Gly	Ser 250		Gly	Ser	Ser	Gly 255	
Glu	Leu	Arg	Glu 260	Asp	Asp	Glu	Pro	Val 265	Lys	Lys	Arg	Gly	Arg 270	Lys	G۱۶

Arg	Gly	Arg 275		Pro	Pro	Ser	Ser 280		Asp	Ser	Glu	Pro 285		Ala	Glu
Leu	Glu 290	Arg	Glu	Ala	Lys	Lys 295	Ser	Ala	Lys	Lys	Pro 300		Ser	Ser	Ser
Thr 305		Pro	Ala	Arg	Lys 310	Pro	Gly	Gln	Lys	Glu 315	Lys	Arg	Val	Arg	Pro 320
Glu	Glu	Lys	Gln	Gln 325	Ala	Lys	Pro	Val	Lys 330	Val	Glu	Arg	Thr	Arg 335	Lys
Arg	Ser	Glu	Gly 340	Phe	Ser	Met	Asp	Arg 345	Lys	Val	Glu	Lys	Lys 350	Lys	Glu
Pro	Ser	Val 355	Glu	Glu	Lys	Leu	Gln 360	Lys	Leu	His	Ser	Glu 365	Ile	Lys	Phe
Ala	Leu 370	Lys	Val	Asp	Ser	Pro 375	Asp	Val	Lys	Arg	Cys 380	Leu	Asn	Ala	Leu
Glu 385	Glu	Leu	Gly	Thr	Leu 390	Gln	Val	Thr	Ser	Gln 395	Ile	Leu	Gln	Lys	Asn 400
Thr	Asp	Val	Val	Ala 405	Thr	Leu	Lys	Lys	Ile 410	Arg	Arg	Tyr	Lys	Ala 415	Asn
Lys	Asp	Val	Met 420	Glu	Lys	Ala	Ala	Glu 425	Val	Tyr	Thr	Arg	Leu 430	Lys	Ser
Arg	Val	Leu 435	Gly	Pro	Lys	Ile	Glu 440	Ala	Val	Gln	Lys	Val 445	Asn	Lys	Ala
Gly	Met 450	Glu	Lys	Glu	Lys	Ala 455	Glu	Glu	Lys	Leu	Ala 460	Gly	Glu	Glu	Leu
Ala 465	Gly	Glu	Glu	Ala	Pro 470	Gln	Glu	Lys	Ala	Glu 475	Asp	Lys	Pro	Ser	Thr 480
Asp	Leu	Ser	Ala	Pro 485	Val	Asn	Gly	Glu	Ala 490	Thr	Ser	Gln	Lys	Gly 495	Glu
Ser	Ala	Glu	Asp 500	Lys	Glu	His	Glu	Glu 505	Gly	Arg	Asp	Ser	Glu 510	Glu	Gly
Pro	Arg	Cys 515	Gly	Ser	Ser	Glu	Asp 520	Leu	His	Asp	Ser	Val 525	Arg	Glu	Gly
Pro	Asp 530	Leu	Asp	Arg	Pro	Gly 535	Ser	Asp	Arg	Gln	Glu 540	Arg	Glu	Arg	Ala

Arg	Gly	Asp	Ser	Glu	Ala	Leu	Asp	Glu	Glu	Ser
545					550					555

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<210> 5838
<211> 227
<212> PRT
<213> Homo sapiens
<220>
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<222> (26)
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<400> 5838
Gln His Pro Gln Pro Ala Asp Ser Arg Gln Thr Gly Ser Ser Lys Ala
                                                          15
                  5
                                     10
Leu Ala Gln Thr Leu Pro Pro Pro Thr Xaa Ala Gly Glu Ser Asn Ser
             20
Val Thr Cys Asn Cys Gly Gln Glu Ala Val Leu Leu Thr Val Arg Lys
                             40
Glu Gly Pro Asn Arg Gly Arg Gln Phe Phe Lys Cys Asn Gly Gly Ser
                         55
Cys Asn Phe Phe Leu Trp Ala Asp Ser Pro Asn Pro Gly Ala Gly Gly
 65
                     70
Pro Pro Ala Leu Ala Tyr Arg Pro Leu Gly Ala Ser Leu Gly Cys Pro
                                      90
Pro Gly Pro Gly Ile His Leu Gly Gly Phe Gly Asn Pro Gly Asp Gly
                                105
Ser Gly Ser Gly Thr Ser Cys Leu Cys Ser Gln Pro Ser Val Thr Arg
        115
Thr Val Gln Lys Asp Gly Pro Asn Lys Gly Arg Gln Phe His Thr Cys
                         135
    130
Ala Lys Pro Arg Glu Gln Gln Cys Gly Phe Phe Gln Trp Val Asp Glu
145
                     150
                                         155
```

Asn Thr Ala Pro Gly Thr Ser Gly Ala Pro Ser Trp Thr Gly Asp Arg 165 170 Gly Arg Thr Leu Glu Ser Glu Ala Arg Ser Lys Arg Pro Arg Ala Gly 185 Ser Ser Asp Met Gly Ser Thr Ala Lys Lys Pro Arg Lys Cys Ser Xaa 200 Cys His Gln Pro Gly Thr His Pro Ser Leu Leu Ser Ser Glu Gln Met 215 Ser Ser Gly 225 <210> 5839 <211> 254 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (172) <223> Xaa equals any of the naturally occurring L-amino acids Gly Arg Ser Arg Val Ser Ser Arg Lys Arg His Pro Ala Gly Pro Pro Gly Glu Ala Gln Glu Gly Ser Ala Lys Ala Glu Arg Pro Gly Leu Gln 25 Asn Met Glu Leu Ala Pro Val Gln Arg Lys Ile Glu Ala Arg Ser Ala 40 Glu Asp Ser Phe Thr Gly Phe Val Arg Thr Leu Tyr Phe Ala Asp Thr 50 Tyr Leu Lys Asp Ser Ser Arg His Cys Pro Ser Leu Trp Ala Gly Thr 65 70 Asn Gly Gly Thr Ile Tyr Ala Phe Ser Leu Arg Val Pro Pro Ala Glu 90

Arg Arg Met Asp Glu Pro Val Arg Ala Glu Gln Ala Lys Glu Ile Gln

Leu Met His Arg Ala Pro Val Val Gly Ile Leu Val Leu Asp Gly His

110

PCT/US00/26524 WO 01/22920

5127 115 120 125 Ser Val Pro Leu Pro Glu Pro Leu Glu Val Ala His Asp Leu Ser Lys 135 Ser Pro Asp Met Gln Gly Ser His Gln Leu Leu Val Val Ser Glu Glu 155 150 Gln Phe Lys Val Phe Thr Leu Pro Lys Val Ser Xaa Lys Leu Lys Leu 165 170 Lys Leu Thr Ala Leu Glu Gly Ser Arg Val Arg Arg Val Ser Val Ala 180 185 His Phe Gly Ser Arg Arg Ala Glu Asp Tyr Gly Glu His His Leu Ala 200 Val Leu Thr Asn Leu Gly Asp Ile Gln Val Val Ser Leu Pro Leu Leu 215 220 Lys Pro Gln Val Arg Tyr Ser Cys Ile Arg Arg Glu Asp Val Met Ala 240 235 225 230 Ser Pro Pro Ala Ser Ser Pro Asn Met Ala Lys Ala Ser Thr 245 250 <210> 5840 <211> 88 <212> PRT <213> Homo sapiens <400> 5840 Gln Pro Ile His Thr Arg Pro Gly Leu Phe Ile Tyr Thr Ala Ala His Ser Ser Leu Gln Leu His Met Leu Tyr Leu Asp His Ser Glu Ala Asn 25 Ser Glu His Tyr Ile Ile Leu Ser Ile Asn Ile Ser Asn Ile Leu Lys 40 Tyr Thr Ile Gly Ile Gln Ala Ser Pro Ile Val Pro Gln Met Phe Gly 50

75 70 65

Cys Phe Cys Ser Trp Ile Val Cys Ile Arg Ile Gln Ala Arg Pro Ile

Tyr Cys Ile Tyr Leu Lys Cys Leu 85

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<210> 5841
 <211> 98
 <212> PRT
 <213> Homo sapiens
 <400> 5841
 Ser Phe Thr Gly Gln Ser Arg Thr Lys Ile Val Tyr Ser Met Tyr Ser
                                     10
Arg Lys Ala Ala Glu Glu Val Lys Arg Glu Leu Ile Lys Leu Lys Val
              20
Asn Tyr Tyr Ile Leu Glu Glu Ser Trp Cys Val Arg Arg Ser Lys Pro
         35
Gly Cys Ser Met Pro Glu Ile Trp Asp Val Glu Asp Pro Ala Asn Ala
                          55
Gly Lys Thr Pro Leu Cys Asn Leu Leu Val Lys Asp Ser Lys Pro His
                                         75
Phe Thr Thr Val Phe Gln Asn Ser Val Tyr Lys Val Leu Glu Val Val
                 85
                                      90
                                                          95
Lys Glu
<210> 5842
<211> 96
<212> PRT
<213> Homo sapiens
<220>
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<400> 5842
Arg Ala Glu Phe Gly Thr Xaa Ser Leu Gln Ala Pro Ser Arg Glu Glu
                                     10
Ala Ala Lys Trp Ser Gln Val Arg Lys Asp Leu Cys Ser Leu Lys Val
```

25

Ser Leu Gln Leu Arg Gly Glu Asp Gly Ser Val Trp Asn Tyr Lys Pro

40

5129

Pro Ala Asp Ser Gly Gly Lys Glu Ile Phe Ser Leu Leu Pro His Met 50 55 60

Ala Asp Met Ser Thr Tyr Met Phe Lys Gly Ile Ile Ser Phe Ala Lys 65 70 75 80

Val Ile Ser Tyr Phe Arg Asp Leu Pro Ile Glu Asp Gln Ile Ser Cys 85 90 95

<210> 5843

<211> 158

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5843

Val Thr Ala Xaa Ser Gly Ile Leu Asp Val Thr Val Val Tyr Leu Asn 1 5 10 15

Pro Glu Gln His Cys Cys Gln Glu Ser Ser Asp Glu Glu Ala Cys Pro 20 25 30

Glu Asp Lys Gly Pro Gln Asp Pro Gln Ala Leu Ala Leu Asp Thr Gln 35 40 45

Ile Pro Ala Thr Pro Gly Pro Lys Pro Leu Val Arg Thr Ser Arg Glu 50 55 60

Pro Gly Lys Asp Val Thr Thr Ser Gly Tyr Ser Ser Val Ser Thr Ala
65 70 75 80

Ser Pro Thr Ser Ser Val Asp Gly Gly Leu Gly Ala Leu Pro Gln Pro 85 90 95

Thr Ser Val Leu Ser Leu Asp Ser Asp Ser His Thr Gln Pro Cys His
100 105 110

His Gln Ala Arg Lys Ser Cys Leu Gln Cys Arg Pro Pro Ser Pro Pro 115 120 125

Glu Ser Ser Val Pro Gln Gln Gln Val Lys Arg Ile Asn Leu Cys Ile

5130

130 135 140 His Ser Glu Glu Glu Asp Met Asn Leu Gly Leu Val Arg Leu 150 155 <210> 5844 <211> 71 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (47) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (64) <223> Xaa equals any of the naturally occurring L-amino acids <400> 5844 Gly Cys Leu Asn Asp Glu His Leu Glu Glu Leu Gly Gly Ile Leu Lys Ala Lys Leu Glu Gly His Phe Lys Asn Gln Glu Leu Arg Gln Val Lys 20 Arg Gln Glu Glu Asn Tyr Asp Gln Gln Val Glu Met Ser Leu Xaa Asp . 35 Glu Asp Glu Cys Asp Val Tyr Ile Leu Thr Lys Val Ser Asp Ile Xaa His Ser Leu Phe Lys Tyr Leu 65 70 <210> 5845 <211> 137 <212> PRT <213> Homo sapiens <400> 5845 Arg Gly Gln His Gln Leu Glu Gly Gly Leu Gly Gly Phe Gln Gly Leu His Gln Val Arg Arg Pro Cys Pro Glu Asp Trp Leu Leu Tyr Gly Arg 20 25 30

5131

Lys Cys Tyr Phe Phe Ser Glu Glu Pro Arg Asp Trp Asn Thr Gly Arg 35 Gln Tyr Cys His Thr His Glu Ala Val Leu Ala Val Ile Gln Ser Gln 55 Lys Glu Leu Glu Phe Met Phe Lys Phe Thr Arg Arg Glu Pro Trp Ile 70 Gly Leu Arg Arg Val Gly Asp Glu Phe His Trp Val Asn Gly Asp Pro 90 Phe Asp Pro Asp Thr Phe Thr Ile Ala Gly Pro Gly Glu Cys Val Phe 100 Val Glu Pro Thr Arg Leu Val Ser Thr Glu Cys Leu Met Thr Arg Pro 120 125 115 Trp Val Cys Ser Lys Met Ala Tyr Thr . 135 <210> 5846 <211> 130 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (121) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (130) <223> Xaa equals any of the naturally occurring L-amino acids <400> 5846 Gly Ala Arg Pro Gly Ala Glu Gly Ala Arg Ala Phe Gly Gly Ser Ile Gly Leu Gln Ala Glu Glu Gln Gly Pro Cys His Leu Pro Gly Gly Arg Ser His Leu Cys Ser Gln Val Arg Gly Ser Ser Gly Gly Glu Thr Glu 35 40 Cys Ala Ser Trp Glu Ala Pro Arg Ile Val Gly Gly Glu Leu Ala Ala 55

Ser Leu Ala Cys Pro Leu Phe Pro Val Pro Pro Ser Arg Leu Ala Pro 65 70 75 Ala Pro Ala Trp Glu Asp Pro His Leu Arg Leu Gln Cys Leu Phe Pro 90 Leu Glu Ala Leu Pro Ser Ala Arg Gly Pro Arg Ile Leu Pro Trp Pro 105 Ser Glu His Arg Leu Gly Arg Pro Xaa Asn Ser Ser Val Lys Pro Gly Ile Xaa 130 <210> 5847 <211> 140 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (100) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (129) <223> Xaa equals any of the naturally occurring L-amino acids <400> 5847 Glu Phe Gly Arg Gly Glu Ile Ser Arg Gly Pro Asp Val His Leu Thr His Gly Leu Glu Pro Lys Asp Val Asn Arg Glu Phe Arg Leu Thr Glu 25 Ser Ser Thr Cys Glu Pro Ser Thr Val Ala Ala Val Leu Ser Arg Ala 35 Gln Gly Cys Arg Ser Pro Ser Ala Pro Asp Val Arg Thr Gly Ser Phe 50 Ser His Ser Ala Thr Asp Gly Ser Val Gly Leu Ile Gly Val Pro Glu Lys Lys Val Ala Glu Lys Gln Ala Ser Thr Glu Leu Glu Ala Ala Ser 85 90

Phe Pro Ala Xaa Met Tyr Ser Glu Pro Leu Arg Gln Phe Arg Asp Ser
100 105 110

Ser Val Gly Asp Gln Asn Ala Gln Val Cys Gln Thr Asn Ser Arg Thr 115 120 125

Xaa Cys Asn Asn Ser Gly Asp His Thr Pro Trp Ile 130 135 140

<210> 5848

<211> 194

<212> PRT

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Leu Leu Ser Asn Lys Met Asn Phe Val Leu Val Lys Val Arg Tyr Asp 1 5 10 15

Val Val Gly Met Phe Trp Asn Met Phe Phe Gln Val Ala Ser Gly Gly
20 25 30

Gly Gly Val Gly Asp Gly Val Gln Glu Pro Thr Thr Gly Asn Trp Arg
35 40 45

Gly Met Leu Lys Thr Ser Lys Ala Glu Glu Leu Leu Ala Glu Glu Lys
50 55 60

Ser Lys Pro Ile Pro Ile Met Pro Ala Ser Pro Gln Lys Gly His Ala 65 70 75 80

Val Asn Leu Leu Asp Val Pro Val Pro Val Ala Arg Lys Leu Ser Ala 85 90 95

Arg Glu Gln Arg Asp Cys Glu Val Ile Glu Arg Leu Ile Lys Ser Tyr 100 105 110

Phe Leu Ile Val Arg Lys Asn Ile Gln Asp Ser Val Pro Lys Ala Val 115 120 125

Met His Phe Leu Val Asn His Val Lys Asp Thr Leu Gln Ser Glu Leu 130 135 140

Val Gly Gln Leu Tyr Lys Ser Ser Leu Leu Asp Asp Leu Leu Thr Glu
145 150 155 160

Ser Glu Asp Met Ala Gln Arg Arg Lys Glu Ala Ala Asp Met Leu Lys 165 170 175

5134

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180 185 190
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Leu Trp

<210> 5849

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<212> PRT

<213> Homo sapiens

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Ser Pro Ile Cys Ile Lys Ala Asp Pro Phe Cys Lys Asp Leu Ser Phe 35 40 45

Arg Thr Phe Ser Val Leu Leu Val Arg Thr Leu Glu Val Ile Leu Ile 50 55 60

Ile Ser Thr Asp Ser Leu Thr Ala Glu Ala Thr
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Lys Asp Leu Leu Ser Gln Tyr Pro Phe Ile Ile Asp Ala His Leu Ser
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                                 25
Asn Ile Leu Ser Glu Val Thr Ala Val Phe Thr Asp Lys Asp Ala Asn
         35
                             40
Val Arg Leu Ala Ala Val Gln Leu Leu Gln Phe Leu Ala Pro Lys Ile
                                              60
                         55
Arg Ala Glu Gln Ile Ser Pro Phe Pro Leu Val Ser Ala His Leu
                 . 70
                                         75
Ser Ser Ala Met Thr His Ile Thr Glu Gly Ile Gln Glu Asp Ser Leu
                                     90
Lys Val Leu Asp Ile Leu Leu Glu Gln Tyr Pro Ala Leu Ile Thr Gly
            100
                                 105
Arg Ser Ser Ile Leu Leu Lys Asn Phe Val Glu Leu Ile Ser His Gln
                             120
Gln Leu Ser Lys Gly Leu Ile Asn Arg Asp Arg Ser Gln Ser Trp Ile
    130
                         135
                                             140
Leu Ser Val Asn Pro Asn Arg Arg Leu Thr Ser Gln Gln Trp Arg Leu
                                         155
                                                             160
                    150
145
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Lys Val Leu Val Arg Leu Ser Lys Phe Leu Gln Ala Leu Ala Asp Gly
165 170 175

Ser Ser Arg Leu Arg Glu Ser Glu Gly Leu Gln Glu Gln Lys Glu Asn 180 185 190

Pro His Ala Thr Ser Asn Xaa Ile Phe Ile Asn Trp Lys Glu His Ala 195 200 205

Asn Asp Gln Gln His Ile Gln Gly Tyr Glu Asn Gly Gly Ser Gln Ala 210 215 220

Lys Xaa Gly Pro Xaa Xaa Xaa Thr Asp Leu Val Gly Gly Leu Met Gly 225 230 235 240

Gly

<210> 5851

<211> 260

<212> PRT

<213> Homo sapiens

<400> 5851

Asn Ser Arg Thr Asp Val Arg Met Glu Thr Asp Leu Glu Val Ile Ile
1 5 10 15

Lys Asp Asn Ser Leu Val Leu Thr Pro Ser His Ile Lys Ala Tyr Met
20 25 30

Leu Met Thr Leu Gln Gly Leu Glu Tyr Leu His Gln His Trp Ile Leu 35 40 45

His Arg Asp Leu Lys Pro Asn Asn Leu Leu Leu Asp Glu Asn Gly Val 50 60

Leu Lys Leu Ala Asp Phe Gly Leu Ala Lys Ser Phe Gly Ser Pro Asn 65 70 75 80

Arg Ala Tyr Thr His Gln Val Val Thr Arg Trp Tyr Arg Ala Pro Glu 85 90 95

Leu Leu Phe Gly Ala Arg Met Tyr Gly Val Gly Val Asp Met Trp Ala 100 105 110

Val Gly Cys Ile Leu Ala Glu Leu Leu Leu Arg Val Pro Phe Leu Pro 115 120 125

Gly Asp Ser Asp Leu Asp Gln Leu Thr Arg Ile Phe Glu Thr Leu Gly

	130					135					140				
Thr 145	Pro	Thr	Glu	Glu	Gln 150	Trp	Pro	Asp	Met	Cys 155	Ser	Leu	Pro	Asp	Туг 160
Val	Thr	Phe	Lys	Ser 165	Phe	Pro	Gly	Ile	Pro 170	Leu	His	His	Ile	Phe 175	Ser
Ala	Ala	Gly	Asp 180	Asp	Leu	Leu	Asp	Leu 185	Ile	Gln	Gly	Leu	Phe 190	Leu	Phe
Asn	Pro	Cys 195	Ala	Arg	Ile	Thr	Ala 200	Thr	Gln	Ala	Leu	Lys 205	Met	Lys	Tyr
Phe	Ser 210	Asn	Arg	Pro	Gly	Pro 215	Thr	Pro	Gly	Суѕ	Gln 220	Leu	Pro	Arg	Pro
Asn 225	Cys	Pro	Val	Glu	Thr 230	Leu	Lys	Glu	Gln	Ser 235	Asn	Pro	Ala	Leu	Ala 240
Ile	Lys	Arg	Lys	Arg 245	Thr	Glu	Ala	Leu	Glu 250	Gln	Gly	Gly	Leu	Pro 255	Lys
Lys	Leu	Ile	Phe 260												
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Arg	Glu	Arg	Val 20		Val	Ser	Val	Arg 25		Ser	Val	Суѕ	Ala 30	Arg	Ala
Arg	Ser	Trp		Asn	Val	Arg	Thr 40		His	Lys	Gly	Gly 45		Ser	Se
Tyr	Arg 50	Leu	Phe	Asn	Val	Arg 55		Thr	Ile	Phe	Leu 60		Phe	Gln	Le
Tyr 65		Ile	Leu	Val	Pro		His	Arg	Asn	Asp 75		Glu	Ser	Gln	Th
Lys	Cys	Ile	Ile	Cys	Ser	Ile	Leu	Ile	Leu	Leu	Leu	His	Ser		

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Pro Pro Glu Pro Pro Pro Ser Gln Gln Arg His Gln Gly Ala Leu Gly
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                                 25
Ser Pro Lys Thr Tyr His Ser Arg Val Pro Gln Ala Pro Gly Cys Cys
         35
                             40
Phe Leu Leu Pro Val Pro Gln Pro His Ala Pro Phe Tyr Ile Leu Cys
Val Ser Lys Gly Trp Lys Asn Lys Thr Gln Leu Lys Ile Lys Lys
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Lys Lys Lys Lys Lys Lys Lys
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5139

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		195	•				200					205			
Glu	Lys 210		Asn	Gln	Val	Cys 215		Thr	His	Gln	His 220	Phe	Glu	Ser	Arg
Met 225		Lys	Суѕ	Ser	Arg 230		Leu	Asn	Asp	Thr 235	Ser	Leu	Pro	His	Ser 240
Cys	Phe	Arg	Ile	Gln 245	His	Tyr	Ala	Gly	Lys 250	Val	Leu	Tyr	Gln	Val 255	Glu
Gly	Phe	Val	Asp 260	Lys	Asn	Asn	qaA	Leu 265	Xaa	Tyr	Arg	Asp	Leu 270	Ser	Gln
Ala	Met	Trp 275		Ala	Ser	His	Ala 280	Leu	Ile	Lys	Ser	Leu 285	Phe	Pro	Glu
Gly	Asn 290	Pro	Ala	Lys	Ile	Asn 295	Leu	Lys	Arg	Pro	Pro 300	Thr	Ala	Gly	Ser
Gln 305	Phe	Lys	Ala	Ser	Val 310	Ala	Thr	Leu	Met	Lys 315	Asn	Leu	Gln	Thr	Xaa 320
Хаа	Pro	Asn	Tyr	Ile 325	Arg	Суз	Ile	Lys	Pro 330	Asn	Asp	Lys	Lys	Ala 335	Ala
His	Ile	Phe	Asn 340	Glu	Ala	Leu	Val	Cys 345	His	Gln	Ile	Arg	Tyr 350	Leu	Gly
Leu	Leu	Glu 355	Asn	Val	Arg	Val	Arg 360	Arg	Ala	Gly	Tyr	Ala 365	Phe	Arg	Gln
Ala	Tyr 370	Glu	Pro	Cys	Leu	Glu 375	Arg	туr	Lys	Met	Leu 380	Cys	Lys	Gln	Thr
Trp 385	Pro	His	Trp	Lys	Gly 390	Pro	Ala	Arg	Ser	Gly 395	Val	Glu	Val	Leu	Phe 400
Asn	Glu	Leu	Glu	11e 405	Pro	Val	Glu	Glu	Tyr 410	Ser	Phe	Gly	Arg	Ser 415	Lys
Ile	Phe	Ile	Arg 420	Asn	Pro	Arg	Thr	Leu 425	Phe	Lys	Leu	Glu	Asp 430	Leu	Arg
Lys	Gln	Arg 435	Leu	Glu	Asp	Leu	Ala 440	Thr	Leu	Ile	Gln	Lys 445	Ile	Туr	Arg
Gly	Trp 450	Lys	Cys	Arg	Thr	His 455	Phe	Leu	Leu	Met	Lys 460	Lys	Ser	Gln	Ile
Val	Ile	Ala	Ala	Trp	Tyr	Arg	Arg	Tyr	Ala	Gln	Gln	Lys	Arg	Tyr	Gln

5141

465 470 475 480

Gln Thr Lys Ser Ser Ala Leu Val Ile Gln Ser Tyr Ile Arg Gly Trp 485 490 495

Lys Ala Arg Lys Ile Leu Arg Glu Leu Lys His Gln Lys Arg Cys Lys 500 505 510

Glu Ala Val Thr Thr Ile Ala Ala Tyr Trp His Gly Thr Gln Xaa Xaa 515 520 525

Xaa Lys Asn Gln Glu Ile Leu Gln Ser Gln Cys Trp Lys Arg Lys Ser 530 540

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<212> PRT

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Leu Cys Leu Leu Lys Arg Pro Ser Pro Ile Leu Phe Asn Pro Gly Ser 1 5 10 15

Pro Ser Gly Gly Pro Thr Leu Gly Thr Thr Ser Pro Thr Asp Gly Pro 20 25 30

Leu Ala Ser Ala Ile Leu Leu Ala Ala Ile Ser Trp Ala Lys Met Leu 35 40 45

Leu Leu Pro Asp Val Ala Asp Phe Pro Cys Gly Ala Lys Arg Lys Pro 50 55 60

Arg Leu Leu Met Leu Ile Ile Pro Leu Ser Ser Gln Pro Leu Tyr Ile
65 70 75 80

Lys Ala Ser Gly Thr Lys Arg 85

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 Leu Lys Ser Gln Thr Ile Pro Lys Pro Met Asn Gly His Ser His Ser
                                   25
 Glu Arg Gly Ser Ile Phe Glu Glu Ser Ser Thr Pro Xaa Thr Ile Xaa
                               40
 Glu Tyr Ser Xaa Asn Asn Pro Ser Phe Thr Asp Asp Ser Ser Gly Asp
      50
                           55
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Glu 65	Ser	Ser	Tyr	Ser	Asn 70	Cys	Val	Pro	Ile	Asp 75	Leu	Ser	Cys	Lys	His 80
Xaa	Thr	Glu	Lys	Ser 85	Glu	Ser	Asp	Gln	Pro 90	Val	Ser	Leu	Asp	Asn 95	Phe
Thr	Gln	Ser	Leu 100	Leu	Asn	Thr	Trp	Asp 105	Pro	Lys	Val	Pro	Asp 110	Val	Asp
Ile	Lys	Glu 115	Asp	Gln	Asp	Thr	Xaa 120	Lys	Asn	Ser	Lys	Leu 125	Asn	Ser	His
Gln	Lys 130	Val	Thr	Leu	Leu	Gln 135	Leu	Xaa	Leu	Gly	His 140	Lys	Asn	Glu	Glu
Asn 145	Val	Glu	Lys	Asn	Thr 150	Ser	Pro	Gln	Gly	Val 155	His	Asn	Asp	Val	Ser 160
Lys	Phe	Asn	Thr	Gln 165	Asn	Xaa	Ala	Arg	Thr 170	Ser	Val	Ile	Glu	Ser 175	Pro
Ser	Thr	Asn	Arg 180	Thr	Thr	Pro	Val	Ser 185	Thr	Pro	Pro	Leu	Leu 190	Thr	Ser
Ser	Lys	Ala 195	Gly	Ser	Pro	Ile	Asn 200	Leu	Ser	Gln	His	Ser 205	Leu	Val	Ile
Lys	Trp 210	Asn	Ser	Pro	Pro	Tyr 215	Val	Сув	Ser	Thr	Gln 220	Ser	Glu	Lys	Leu
Thr 225	Asn	Thr	Ala	Ser	Asn 230	His	Ser	Met	Asp	Leu 235	Thr	Lys	Ser	Lys	Asp 240
Pro	Pro	Gly	Glu	Lys 245	Pro	Ala	Gln	Asn	Glu 250	Gly	Ala	Gln	Asn	Ser 255	Ala
Thr	Phe	Ser	Ala 260	Ser	Lys	Leu	Leu	Gln 265		Leu	Ala	Gln	Xaa 270	Gly	Met
Gln	Ser	Ser 275	Met	Ser	Val	Glu	Glu 280	Gln	Arg	Pro	Ser	Lys 285		Leu	Leu
Thr	Gly 290	Asn	Thr	Asp	Lys	Pro 295		Gly	Met	Ile	Asp 300		Leu	Asn	Ser
Pro 305	Leu	Leu	Ser	Asn	Lys 310		Asn	Ala	Val	Glu 315		Asn	Lys	Ala	Phe 320
Ser	Ser	Gln	Pro	Thr 325		Pro	Glu	Pro	Gly 330		Ser	Gly	Ser	Glu 335	Ile

Glu	ı Asn	1 Lev	Leu 340		Arg	Arg	Thr	Val		Gln	Leu	Leu	Leu 350		Asn
Pro) Asn	1 Lys 355		Lys	Ser	Glu	Lys 360		Glu	Lys	Thr	Pro 365		Arg	Asp
Glu	Ser 370		Gln	Glu	His	Ser 375		Arg	Ala	Leu	Ser 380	Glu	Gln	Ile	Leu
Met 385		Lys	Ile	Lys	Ser 390	Glu	Pro	Cys	Asp	Asp 395	Leu	Gln	Ile	Pro	Asn 400
Thr	Asn	Val	His	Leu 405	Ser	His	Asp	Ala	Lys 410	Ser	Ala	Pro	Phe	Leu 415	Gly
Met	Ala	Pro	Ala 420	Val	Gln	Arg	Ser	Ala 425	Pro	Ala	Leu	Pro	Val 430	Ser	Glu
Asp	Phe	Lys 435	Ser	Glu	Pro	Val	Ser 440	Pro	Gln	Asp	Phe	Ser 445	Phe	Ser	Lys
Asn	Gly 450	Leu	Leu	Ser	Arg	Leu 455	Leu	Arg	Gln	Asn	Gln 460	Asp	Ser	Tyr	Leu
Ala 465	Asp	Asp	Ser	Asp	Arg 470	Ser	His	Arg	Asn	Asn 475	Glu	Met	Ala	Leu	Leu 480
Glu	Ser	Lys	Asn	Leu 485	Cys	Met	Val	Pro	Lys 490	Lys	Arg	Lys	Leu	Tyr 495	Thr
Glu	Pro	Leu	Glu 500	Asn	Pro	Phe	Lys	Lys 505	Met	Lys	Asn	Asn	Ile 510	Val	Asp
Ala	Ala	Asn 515	Asn	His	Ser	Ala	Pro 520	Glu	Val	Leu	Tyr	Gly 525	Ser	Leu	Leu
Asn	Gln 530	Glu	Glu	Leu	Lys	Phe 535	Ser	Arg	Asn	Asp	Leu 540	Glu	Phe	Lys	Туr
Pro 545	Ala	Gly	His	Gly	Ser 550	Ala	Ser	Glu	Ser	Glu 555	His	Arg	Ser	Trp	Ala 560
Arg	Glu	Ser	Lys	Ser 565	Phe	Asn	Val	Leu	Lys 570	Gln	Leu	Leu	Leu	Ser 575	Glu
Asn	Cys	Val	Arg 580	Asp	Leu	Ser	Pro	His 585	Arg	Ser	Asn	Ser	Val 590	Ala	Asp
Ser	Lys	Lys 595	Glu	Arg	Thr	Gln	Lys 600								

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Asn	His	Ser 35	Ala	Pro	Glu	Val	Leu 40	Tyr	Gly	Ser	Leu	Leu 45	Asn	Gln	Glu
Glu	Leu 50	Lys	Phe	Ser	Arg	Asn 55	Asp	Leu	Glu	Phe	Lys 60	Tyr	Pro	Ala	Gly
His 65	Gly	Ser	Ala	Ser	Glu 70	Ser	Glu	His	Arg	Ser 75	Trp	Ala	Arg	Glu	Ser 80
Lys	Ser	Phe	Asn	Val 85	Leu	Lys	Gln	Leu	Leu 90	Leu	Ser	Glu	Asn	Cys 95	Val
Arg	Asp	Leu	Ser 100	Pro	His	Arg	Ser	Asn 105	Ser	Val	Ala	Asp	Ser 110	Lys	Lys
Lys	Gly	His 115	Lys	Asn	Asn	Val	Thr 120	Asn	Ser	Lys	Pro	Glu 125	Phe	Ser	Ile
Ser	Ser 130	Leu	Asn	Gly	Leu	Met 135	Tyr	Ser	Ser	Thr	Gln 140	Pro	Ser	Ser	Cys
Met 145	Asp	Asn	Arg	Thr	Phe 150	Ser	Туr	Pro	Gly	Val 155	Val	Lys	Thr	Pro	Val 160
Ser	Pro	Thr	Phe	Pro 165	Glu	His	Leu	Gly	Cys 170	Ala	Gly	Ser	Arg	Pro 175	Glu
Ser	Gly	Leu	Leu 180	Asn	Gly	Cys	Ser	Met 185	Pro	Ser	Glu	Lys	Gly 190	Pro	Ile
Lys	Trp	Val 195	Ile	Thr	Asp	Ala	Glu 200	Lys	Asn	Glu	Tyr	G1u 205	Lys	Asp	Ser
Pro	Arg		Thr	Lys	Thr	Asn 215		Ile	Leu	Туг	Tyr 220		Leu	Gln	Lys

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Gly Gly Asn Ser Val Thr Ser Arg Glu Thr Gln Asp Lys Asp Ile Trp
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 Arg Glu Ala Ser Ser Ala Glu Ser Val Ser Gln Val Thr Ala Lys Glu
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 Glu Leu Leu Pro Thr Ala Glu Thr Lys Ala Ser Phe Phe Asn Leu Arg
                                 265
 Ser Pro Tyr Asn Ser His Met Gly Asn Asn Ala Ser Arg Pro His Ser
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                             280
                                                  285
Ala Asn Gly Glu Val Tyr Gly Leu Leu Gly Ser Val Leu Thr Ile Lys
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<222> (549)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5858
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Thr 1	Leu	Glu	Ala	Glu 5	Lys	Glu	Arg	Arg	Lys 10	Ser	Gly	Leu	Ser	Ser 15	Arg
Val	Gln	Phe	Arg 20	Asn	Gln	Gly	Ser	Glu 25	Pro	Lys	Tyr	Thr	Gln 30	Glu	Leu
Thr	Leu	Lys 35	Arg	Gln	Lys	Gln	Lys 40	Val	Cys	Met	Glu	Glu 45	Thr	Leu	Trp
Leu	Gln 50	Asp	Asn	Ile	Arg	Asp 55	Lys	Leu	Arg	Pro	Ile 60	Pro	Ile	Thr	Ala
Ser 65	Val	Glu	Ile	Gln	Glu 70	Pro	Ser	Ser	Arg	Arg 75	Arg	Val	Asn	Ser	Leu 80
Pro	Glu	Val	Leu	Pro 85	Ile	Leu	Asn	Ser	Asp 90	Glu	Pro	Lys	Thr	Ala 95	His
Ile	Asp	Val	His 100	Phe	Leu	Lys	Glu	Gly 105	Cys	Gly	Asp	Asp	Asn 110	Val	Суѕ
Asn	Ser	Asn 115	Leu	Lys	Leu	Glu	Туг 120	Lys	Phe	Cys	Thr	Arg 125	Glu	Gly	Asn
Xaa	Asp 130	Lys	Phe	Xaa	Tyr	Leu 135	Pro	Ile	Gln	Lys	Gly 140	Val	Pro	Glu	Leu
Val 145	Leu	Lys	Asp	Gln	Lys 150	Asp	Ile	Ala	Leu	Glu 155	Ile	Thr	Val	Thr	Asn 160
Ser	Pro	Ser	Asn	Pro 165	Arg	Asn	Pro	Thr	Lys 170	Asp	Gly	Asp	Asp	Ala 175	His
Glu	Ala	Lys	Leu 180	Ile	Ala	Thr	Phe	Pro 185	Asp	Thr	Leu	Thr	Туг 190	Ser	Ala
Туг	Arg	Glu 195	Leu	Arg	Ala	Phe	Pro 200		Lys	Gln	Leu	Ser 205	Cys	Val	Ala
Asn	Gln 210	Asn	Gly	Ser	Gln	Ala 215	Asp	Суѕ	Glu	Leu	Gly 220	Asn	Pro	Phe	Lys
Arg 225		Ser	Asn	Val	Thr 230		Tyr	Leu	Val	Leu 235	Ser	Thr	Thr	Glu	Val 240
Thr	Phe	Asp	Thr	Pro 245	Asp	Leu	Asp	Ile	Asn 250		Lys	Leu	Glu	Thr 255	
Ser	Asn	Gln	Asp 260		Leu	Ala	Pro	Ile 265		Ala	Lys	Ala	Lys 270		Va]

Ile	Glu	Leu 275		Leu	Ser	Val	Ser 280	Gly	Val	Ala	Lys	Pro 285	Ser	Gln	Val
Туr	Phe 290	Gly	Gly	Thr	Val	Val 295	Gly	Glu	Gln	Ala	Met 300	Lys	Ser	Glu	Asp
Glu 305		Gly	Ser	Leu	Ile 310	Glu	Tyr	Glu	Phe	Arg 315	Val	Ile	Asn	Leu	Gly 320
Lys	Pro	Leu	Thr	Asn 325	Leu	Gly	Thr	Ala	Thr 330	Leu	Asn	Ile	Gln	Trp 335	Pro
Lys	Glu	Ile	Ser 340	Asn	Gly	Lys	Trp	Leu 345	Leu	Tyr	Leu	Val	Lys 350	Val	Glu
Ser	Lys	Gly 355	Leu	Glu	Lys	Val	Thr 360	Cys	Glu	Pro	Gln	Lys 365	Glu	Ile	Asn
Ser	Leu 370	Asn	Leu	Thr	Glu	Xaa 375	His	Asn	Ser	Arg	Lys 380	Lys	Arg	Glu	Ile
Thr 385	Gľu	Lys	Gln	Ile	Asp 390	Asp	Asn	Arg	Lys	Phe 395	Ser	Leu	Phe	Ala	Glu 400
Arg	Lys	Tyr	Gln	Thr 405	Leu	Asn	Cys	Ser	Val 410	Asn	Val	Asn	Cys	Val 415	Asn
Ile	Arg	Cys	Pro 420	Leu	Arg	Gly	Leu	Asp 425	Ser	Lys	Ala	Ser	Leu 430	Ile	Leu
Arg	Ser	Arg 435	Leu	Trp	Xaa	Ser	Thr 440	Phe	Leu	Glu	Glu	Tyr 445	Ser	Lys	Leu
Asn	Tyr 450	Leu	Asp	Ile	Leu	Met 455	Arg	Ala	Phe	Ile	Asp 460	Val	Thr	Ala	Ala
Ala 465	Glu	Asn	Ile	Arg	Leu 470	Pro	Asn	Ala	Gly	Thr 475	Gln	Val	Arg	Val	Thr 480
Val	Phe	Pro	Ser	Lys 485	Thr	Val	Ala	Gln	Туг 490	Ser	Gly	Val	Pro	Trp 495	Trp
Ile	Ile	Leu	Val 500	Ala	Ile	Leu	Ala	Gly 505	Ile	Leu	Met	Leu	Ala 510	Leu	Leu
Val	Phe	Ile 515	Leu	Trp	Lys	Cys	Gly 520	Phe	Phe	Lys	Arg	Asn 525	Lys	Lys	Asp
His	Tyr 530	Asp	Ala	Thr	Tyr	His 535	Lys	Ala	Glu	Ile	His 540	Ala	Gln	Pro	Ser

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Asp Lys Glu Arg Xaa Thr Ser Asp Ala
545 550
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<210> 5859
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<213> Homo sapiens
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<221> SITE
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Arg Thr Pro Glu Ser Trp Arg Leu Thr Pro Pro Ala Lys Val Gly Gly
                                     10
Leu Asp Phe Ser Pro Val Gln Thr Ser Gln Gly Ala Ser Asp Pro Leu
Pro Asp Pro Leu Gly Leu Met Asp Leu Ser Thr Thr Pro Leu Gln Ser
                                                 45
                             40
         35
Ala Pro Pro Leu Glu Ser Pro Gln Arg Leu Leu Ser Ser Glu Pro Leu
                         55
     50
Asp Leu Ile Ser Val Pro Phe Gly Asn Ser Ser Pro Ser Asp Ile Asp
                     70
                                         75
Val Pro Lys Pro Gly Ser Pro Glu Pro Gln Val Ser Gly Leu Ala Ala
                                     90
                 85
```

Asn Arg Ser Leu Thr Glu Gly Leu Val Leu Gly His Asn Xaa

105

5150

1 10 15 Ala Met Pro Lys Gly Gly Arg Lys Gly Gly His Lys Gly Arg Ala Arg 25 Gln Tyr Thr Ser Pro Glu Glu Ile Asp Ala Gln Leu Gln Ala Glu Lys Gln Lys Ala Arg Glu Glu Glu Glu Gln Lys Glu Gly Gly Asp Gly Ala Ala Gly Asp Pro Lys Lys Glu Lys Lys Ser Leu Asp Ser Asp Glu Ser Glu Asp Glu Glu Asp Asp Tyr Gln Gln Lys Arg Lys Gly Val Glu Gly 90 Leu Ile Asp Ile Glu Asn Pro Asn Arg Val Ala Gln Thr Thr Lys Lys 100 105 Val Thr Gln Leu Asp Leu Asp Gly Pro Lys Glu Leu Ser Arg Arg Glu 115 120 Arg Glu Glu Ile Glu Lys Gln Lys Ala Lys Glu Arg Tyr Met Lys Met 135 His Leu Ala Gly Lys Thr Glu Gln Ala Lys Ala Asp Leu Ala Arg Leu 145 150 155 Ala Ile Ile Arg Lys Gln Arg Glu Glu Ala Ala Arg Lys Lys Glu Glu 165 Glu Arg Lys Ala Lys Asp Asp Ala Thr Leu Ser Gly Lys Arg Met Gln 185 Ser Leu Ser Leu Asn Lys 195 <210> 5861 <211> 63 <212> PRT <213> Homo sapiens <400> 5861 Lys Asn Lys Thr Lys Ala Val Phe Pro Asn Phe Gly Met Asn Pro Pro Leu Phe Gln Met Lys Thr Ala Ser Arg Ser Ser Ser Lys Arg Lys Ser

25

30

5151

Leu Gly Gly Ala Gln Arg Ala Arg Cys Pro Ser Thr Ser Val Leu Gly 35 40 45

Thr Trp Arg Val Ala Ala Ser Pro Pro Ala Pro Val Pro Ser Cys 50 55 60

<210> 5862

<211> 229

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (221)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5862

Ala Thr Lys Ile Asn Leu Ser Leu Ser Ala Leu Gly Asn Val Ile Ser 1 5 10 15

Ala Leu Val Asp Gly Lys Ser Thr His Ile Pro Tyr Arg Asp Ser Lys
20 25 30

Leu Thr Arg Leu Leu Gln Asp Ser Leu Gly Gly Asn Ala Lys Thr Val\$35\$ 40 45

Met Val Ala Asn Val Gly Pro Ala Ser Tyr Asn Val Glu Glu Thr Leu 50 55 60

Thr Thr Leu Arg Tyr Ala Asn Arg Ala Lys Asn Ile Lys Asn Lys Pro 65 70 75 80

Arg Val Asn Glu Asp Pro Lys Asp Ala Leu Leu Arg Glu Phe Gln Glu 85 90 95

Glu Ile Ala Arg Leu Lys Ala Gln Leu Glu Lys Arg Ser Ile Gly Arg 100 105 110

Arg Lys Arg Arg Glu Lys Arg Arg Glu Gly Gly Gly Ser Gly Gly Gly 115 120 125

Lys Arg Ala Ile Val Glu Asp His Ser Leu Val Ala Glu Glu Lys Met

5152

165 170 175 Arg Leu Leu Lys Glu Lys Glu Lys Lys Met Glu Asp Leu Arg Arg Glu 185 Lys Asp Ala Ala Glu Met Leu Gly Ala Lys Ile Lys Val Pro Tyr Pro 200 Tyr Pro Ser Leu Gly Pro Cys Pro Val Thr Ala Phe Xaa Phe Ile Lys 215 Gln Gln Gln Lys Thr 225 <210> 5863 <211> 298 <212> PRT <213> Homo sapiens <400> 5863 Cys Glu Arg Gly Ser Leu His Phe Thr Gly Val Thr Gly Gly Asn Leu Arg Val Asn Gly Lys Glu Arg Ala Ser Gly Ile Tyr Phe Gly Ala Asn Glu Ala Leu Leu Ala Val Lys Asp Tyr Ile Arg Thr Gln Ile Ile Ser 40 Lys Lys Ile Asn Thr Lys Phe Phe Gln Glu Glu Asn Thr Glu Lys Leu Lys Leu Lys Tyr Tyr Asn Leu Met Ile Gln Leu Asp Gln His Glu Gly Ser Tyr Leu Ser Ile Cys Lys His Tyr Arg Ala Ile Tyr Asp Thr Pro 85 90 Cys Ile Gln Ala Glu Ser Glu Lys Trp Gln Gln Ala Leu Lys Ser Val 100 105 Val Leu Tyr Val Ile Leu Ala Pro Phe Asp Asn Glu Gln Ser Asp Leu 115 125 Val His Arg Ile Ser Gly Asp Lys Lys Leu Glu Glu Ile Pro Lys Tyr 130 135

Lys Asp Leu Leu Lys Leu Phe Thr Thr Met Glu Leu Met Arg Trp Ser

155

160

150

5153

Thr Leu Val Glu Asp Tyr Gly Met Glu Leu Arg Lys Gly Ser Leu Glu 165 170 175

Ser Pro Ala Thr Asp Val Phe Gly Ser Thr Glu Glu Gly Glu Lys Arg 180 185 190

Trp Lys Asp Leu Lys Asn Arg Val Val Glu His Asn Ile Arg Ile Met
195 200 205

Ala Lys Tyr Tyr Thr Arg Ile Thr Met Lys Arg Met Ala Gln Leu Leu 210 215 220

Asp Leu Ser Val Asp Glu Ser Glu Ala Phe Leu Ser Asn Leu Val Val 225 230 235 240

Asn Lys Thr Ile Phe Ala Lys Val Asp Arg Leu Ala Gly Ile Ile Asn 245 250 255

Phe Gln Arg Pro Lys Asp Pro Asn Asn Leu Leu Asn Asp Trp Ser Gln 260 265 270

Lys Leu Asn Ser Leu Met Ser Leu Val Asn Lys Thr Thr His Leu Ile 275 280 285

Ala Lys Glu Glu Met Ile His Asn Leu Gln 290 295

<210> 5864

<211> 102

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5864

Asn Ser Ala Glu Cys Asn Pro Arg Phe Xaa Asn Ala Thr Ile Val Cys
1 5 10 15

Asn Ser Leu Asp Gly Ser Asn Trp Gly Gln Glu Gln Arg Glu Asp His
20 25 30

Leu Cys Phe Ser Pro Gly Ser Glu Val Lys Val Arg Ser Lys Gly Glu 35 40 45

Arg Ala Leu Gly Val Met Ser Arg Gly Gly Pro Arg Trp Lys Arg Ala

5154

50 55 60

Trp Pro Gly Thr Gln Trp Leu Ala Leu Phe Glu Pro Ser Gly Thr Ala 65 70 75 80

Leu Ala His Phe Gln Gly Leu Leu Pro Pro Leu Thr Pro Ser Leu Pro 85 90 95

Thr Val His Ser Asp Leu 100

<210> 5865

<211> 345

<212> PRT

<213> Homo sapiens

<400> 5865

Leu Pro Val Arg Ala Glu Pro Thr Arg Ala Ala Met Ser Gly Asp
1 5 10 15

Glu Met Ile Phe Asp Pro Thr Met Ser Lys Lys Lys Lys Lys Lys Lys Lys 20 25 30

Lys Pro Phe Met Leu Asp Glu Glu Gly Asp Thr Gln Thr Glu Glu Thr
35 40 45

Gln Pro Ser Glu Thr Lys Glu Val Glu Pro Glu Pro Thr Glu Asp Lys 50 55 60

Asp Leu Glu Ala Asp Glu Glu Asp Thr Arg Lys Lys Asp Ala Ser Asp 65 70 75 80

Asp Leu Asp Asp Leu Asn Phe Phe Asn Gln Lys Lys Lys Lys Lys S5 90 95

Thr Lys Lys Ile Phe Asp Ile Asp Glu Ala Glu Glu Gly Val Lys Asp
100 105 110

Leu Lys Ile Glu Ser Asp Val Gln Glu Pro Thr Glu Pro Glu Asp Asp 115 120 125

Leu Asp Ile Met Leu Gly Asn Lys Lys Lys Lys Lys Lys Asn Val Lys 130 135 140

Glu Asp Asn Lys Lys Asp Asp Gly Ile Ser Phe Ser Asn Gln Thr Gly
165 170 175

5155

Pro Ala Trp Ala Gly Ser Glu Arg Asp Tyr Thr Tyr Glu Glu Leu Leu 185 180 Asn Arg Val Phe Asn Ile Met Arg Glu Lys Asn Pro Asp Met Val Ala 195 200 205 Gly Glu Lys Arg Lys Phe Val Met Lys Pro Pro Gln Val Val Arg Val 215 220 Gly Thr Lys Lys Thr Ser Phe Val Asn Phe Thr Asp Ile Cys Lys Leu 230 235 Leu His Arg Gln Pro Lys His Leu Leu Ala Phe Leu Leu Ala Glu Leu 245 250 Gly Thr Ser Gly Ser Ile Asp Gly Asn Asn Gln Leu Val Ile Lys Gly 265 260 Arg Phe Gln Gln Lys Gln Ile Glu Asn Val Leu Arg Arg Tyr Ile Lys 280 Glu Tyr Val Thr Cys His Thr Cys Arg Ser Pro Asp Thr Ile Leu Gln 300 295 290 Lys Asp Thr Arg Leu Tyr Phe Leu Gln Cys Glu Thr Cys His Ser Arg 305 310 315 Cys Ser Val Ala Ser Ile Lys Thr Gly Phe Gln Ala Val Thr Gly Lys 330 Arg Ala Gln Leu Arg Ala Lys Ala Asn 345 340

<210> 5866 <211> 194 <212> PRT <213> Homo sapiens

<400> 5866

Arg Thr Ser Met Gly Ile Leu Tyr Ser Glu Pro Ile Cys Gln Ala Ala 1 5 10 15

Tyr Gln Asn Asp Phe Gly Gln Val Trp Arg Trp Val Lys Glu Asp Ser 20 25 30

Ser Tyr Ala Asn Val Gln Asp Gly Phe Asn Gly Asp Thr Pro Leu Ile 35 40 45

5156

Cys Ala Cys Arg Arg Gly His Val Arg Ile Val Ser Phe Leu Leu Arg 50 55 60

Arg Asn Ala Asn Val Asn Leu Lys Asn Gln Lys Glu Arg Thr Cys Leu 65 70 75 80

His Tyr Ala Val Lys Lys Lys Phe Thr Phe Ile Asp Tyr Leu Leu Ile 85 90 95

Ile Leu Leu Met Pro Val Leu Leu Ile Gly Tyr Phe Leu Met Val Ser 100 105 110

Lys Thr Lys Gln Asn Glu Ala Leu Val Arg Met Leu Leu Asp Ala Gly
115 120 125

Val Glu Val Asn Ala Thr Asp Cys Tyr Gly Cys Thr Ala Leu His Tyr 130 135 140

Arg Ala Asp Pro Thr Ile Lys Asn Lys His Gly Glu Ser Ser Leu Asp 165 170 175

Ile Ala Arg Arg Leu Lys Phe Ser Gln Ile Glu Leu Met Leu Arg Lys
180 185 190

Ala Leu

<210> 5867

<211> 469

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<220> <221> SITE <222> (436) <223> Xaa equals any of the naturally occurring L-amino acids															
)> 58 Ala		Phe	Ser 5	Arg	Gly	Xaa	Gln	Leu 10	Ser	Phe	Thr	Asp	Leu 15	Gly
Leu	Pro	Pro	Thr 20	Asp	His	Leu	Gln	Ala 25	Ser	Phe	Gly	Phe	Gln 30	Thr	Phe
Gln	Pro	Ser 35	Gly	Ile	Leu	Leu	Asp 40	His	Gln	Thr	Trp	Thr 45	Arg	Xaa	Leu
Gln	Val 50	Thr	Leu	Glu	Asp	Gly 55	Tyr	Ile	Glu	Leu	Ser 60	Thr	Ser	Asp	Ser
Xaa 65	Gly	Pro	Ile	Phe	Lys 70	Ser	Pro	Gln	Thr	Туr 75	Met	Asp	Gly	Leu	Leu 80
His	Tyr	Val	Ser	Val 85	Ile	Ser	Asp	Asn	Ser 90	Gly	Leu	Arg	Leu	Leu 95	Ile
Asp	Asp	Gln	Leu 100	Leu	Arg	Asn	Ser	Lys 105	Arg	Leu	Lys	His	Ile 110	Ser	Ser
Ser	Arg	Gln 115	Ser	Leu	Arg	Leu	Gly 120	Gly	Ser	Asn	Phe	Glu 125	Gly	Cys	Ile
Ser	Asn 130	Val	Phe	Val	Gln	Arg 135	Leu	Ser	Leu	Ser	Pro 140	Glu	Val	Leu	Asp
Leu 145	Thr	Ser	Asn	Ser	Leu 150	Lys	Arg	Asp	Val	Ser 155	Leu	Gly	Gly	Cys	Ser 160
Leu	Asn	Lys	Pro	Pro 165	Phe	Leu	Met	Leu	Leu 170	Lys	Gly	Ser	Thr	Arg 175	Phe
Asn	Lys	Thr	Lys 180	Thr	Phe	Arg	Ile	Asn 185	Gln	Leu	Leu	Gln	Asp 190	Thr	Pro
Val	Ala	Ser 195	Pro	Arg	Ser	Val	Lys 200	Val	Trp	Gln	Asp	Ala 205	Cys	Ser	Pro
Leu	Pro 210	_	Thr	Gln	Ala	Asn 215	His	Gly	Ala	Leu	Gln 220	Phe	Gly	Asp	Ile
Pro 225		Ser	His	Leu	Leu 230	Phe	Lys	Leu	Pro	Gln 235	Glu	Leu	Leu	Lys	Pro 240

Arg Ser Gln Phe Ala Val Asp Met Gln Thr Thr Ser Ser Arg Gly Leu 245 250 Val Phe His Thr Gly Thr Lys Asn Ser Phe Met Ala Leu Tyr Leu Ser 265 Lys Gly Arg Leu Val Phe Ala Leu Gly Thr Asp Gly Lys Lys Leu Arg 280 Ile Lys Ser Lys Glu Lys Cys Asn Asp Gly Lys Trp His Thr Val Val 290 295 Phe Gly His Asp Gly Glu Lys Gly Arg Leu Val Val Asp Gly Leu Arg 310 Ala Arg Glu Gly Ser Leu Pro Gly Asn Ser Thr Ile Ser Ile Arg Ala 330 Pro Val Tyr Leu Gly Ser Pro Pro Ser Gly Lys Pro Lys Ser Leu Pro Thr Asn Ser Phe Val Gly Cys Leu Lys Asn Phe Gln Leu Asp Ser Lys 355 Pro Leu Tyr Thr Pro Ser Ser Ser Phe Gly Val Ser Ser Cys Leu Gly 375 Gly Pro Leu Glu Lys Gly Ile Tyr Phe Ser Glu Glu Gly Gly His Val 390 395 Val Leu Ala His Ser Val Leu Leu Gly Pro Glu Phe Lys Leu Val Phe 405 415 Ser Ile Arg Pro Arg Ser Leu Thr Gly Ile Leu Ile His Ile Gly Ser 420 425 Gln Pro Gly Xaa Ala Leu Met Cys Leu Pro Gly Gly Arg Lys Gly His 440 Gly Leu Tyr Gly Gln Trp Gly Arg Trp Asp Leu Asn Val Gly His Thr 450 455 460 Lys Ala Val Ser Val 465

<210> 5868 <211> 83 <212> PRT

5159

<213> Homo sapiens

<400> 5868

Phe Leu Ile Leu Ser Gly Glu Leu Leu Ala Arg Ile Ile Tyr Leu Gln
1 5 10 15

Ile Ile Leu Asp Gln Arg Leu Gly Ala Gly Leu Thr Pro Ser Ser Arg
20 25 30

Leu Gly Ala Ser Ile His Phe Leu Val Gly Leu Asn Ile Pro Pro Ala 35 40 45

Phe Arg Arg Ile His Arg Thr Tyr Cys Ser Phe Gln Met Thr Phe Trp 50 55 60

Lys Ile Val Pro Phe Ala Asn Arg Asn Met Pro Glu Gly Ile Phe Ser 65 70 75 80

Ser Phe Ile

<210> 5869

<211> 117

<212> PRT

<213> Homo sapiens

<400> 5869

Ser Cys Thr Arg His Gln Ser Leu Pro Gly Ser Cys Asp Glu Leu His 1 5 10 15

Leu Ser Pro Phe Leu Pro Gln Pro Gln Thr Leu Ser Phe Lys Glu Gly
20 25 30

Leu Pro Gly Ser Leu His Pro Thr Ala Pro Met Arg Leu Gly Pro Arg 35 40 45

Val His Ser Pro Gly Gly Ser Gln Leu Ser Gly Arg Ser Phe Pro Pro 50 55 60

Asn Ile Phe Gln Leu Leu Gly Gly Asp His Arg Ala Leu Leu Lys 65 70 75 80

Ile Trp Leu Leu Gln Arg Pro Glu Ser Gln Glu Gly Leu Pro Gly
85 90 95

Arg Leu Val Val Met Glu Arg Arg Val Lys Met Thr Ser Cys Pro Ser 100 105 110

Cys Pro Arg Phe Cys

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<210> 5870
 <211> 170
 <212> PRT
 <213> Homo sapiens
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<220>
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Phe Leu Ser Ser Phe Phe Thr Ser Leu Gly Ser Phe Ile Val Ile Cys
             20
Ser Ile Leu Gly Thr Gln Ala Trp Ile Thr Ser Thr Ile Ala Xaa Arg
                              40
Asp Ser Ala Ser Asn Gly Ser Ile Phe Ile Thr Tyr Gly Leu Phe Arg
                         55
Gly Glu Ser Ser Glu Glu Leu Ser His Gly Leu Ala Glu Pro Lys Lys
 65
                     70
                                          75
Lys Phe Ala Val Leu Glu Ile Leu Asn Asn Ser Ser Gln Lys Asn Ser
                 85
Ala Phe Gly Asp Tyr Pro Val Pro Gly Pro Glu Phe Asp His Val Ala
                                 105
Ala Glu Leu Trp Val Tyr Leu Leu Gln Gln His Gln Gln Pro Leu Pro
        115
                            120
Asp Ile Pro Gly Ala Arg Arg Gly Cys Thr Pro Gly Thr Gly Ser Gly
    130
                        135
                                            140
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5161

Thr Asn Phe Pro Lys Val Val Gln Met Leu 165 170

<210> 5871

<211> 173

<212> PRT

<213> Homo sapiens

<400> 5871

Arg Thr Tyr Phe Pro Val Lys Met Pro Thr Thr Lys Lys Thr Leu Met 1 5 10 15

Phe Leu Ser Ser Phe Phe Thr Ser Leu Gly Ser Phe Ile Val Ile Cys
20 25 30

Ser Ile Leu Gly Thr Gln Ala Trp Ile Thr Ser Thr Ile Ala Val Arg 35 40 45

Asp Ser Ala Ser Asn Gly Ser Ile Phe Ile Thr Tyr Gly Leu Phe Arg 50 55 60

Gly Glu Ser Ser Glu Glu Leu Ser His Gly Leu Ala Glu Pro Lys Lys
65 70 75 80

Lys Phe Ala Ala Ser Phe Val Phe Val Thr Met Ile Leu Phe Val Ala 85 90 95

Asn Thr Gln Ser Asn Gln Leu Ser Glu Glu Leu Phe Gln Met Leu Tyr 100 105 110

Pro Ala Thr Thr Ser Lys Gly Thr Thr His Ser Tyr Gly Tyr Ser Phe 115 120 125

Trp Leu Ile Leu Leu Val Ile Leu Leu Asn Ile Val Thr Val Thr Ile 130 135 140

Lys Pro Met Glu Tyr Ala Pro Arg Asp Gly Ile Leu Phe 165 170

<210> 5872

<211> 132 <212> PRT <213> Homo sapiens

<400> 5872

His Arg Asn Arg Pro Ser Gln Cys His Leu Leu Asn Leu Trp Arg Pro

1 5 10 15

Pro Asp Leu Glu Glu Pro Thr Lys Val Asp Lys Leu Gln Glu Pro Leu 20 25 30

Leu Glu Ala Leu Lys Ile Tyr Ile Arg Lys Arg Arg Pro Ser Lys Pro 35 40 45

His Met Phe Pro Lys Ile Leu Met Lys Ile Thr Asp Leu Arg Ser Ile 50 55 60

Ser Ala Lys Gly Ala Glu Arg Val Ile Thr Leu Lys Met Glu Ile Pro 65 70 75 80

Gly Ser Met Pro Pro Leu Ile Gln Glu Met Leu Glu Asn Ser Glu Gly 85 90 95

His Glu Pro Leu Thr Pro Ser Ser Ser Gly Asn Thr Ala Glu His Ser 100 105 110

Pro Ser Ile Ser Pro Ser Ser Val Glu Asn Ser Gly Val Ser Gln Ser 115 120 125

Pro Leu Val Gln 130

<210> 5873

<211> 326

<212> PRT

<213> Homo sapiens

<400> 5873

Ala His Ala Ser Ala His Ala Ser Ala Trp Val Pro Ala Pro Gln Arg

1 5 10 15

Ser Arg Asp Ser Pro Arg Arg Arg Ala Arg Arg Pro Glu Leu Pro Lys
20 25 30

Pro Ser Arg Ala Ala His Thr Pro Gly Leu His Ser Leu Phe Gln His 35 40 45

Pro Leu Val Leu Ala Ala Ala Arg Val Pro Glu Thr Glu Leu Pro Gln 50 55 60

Arg 65	Pro	Arg	Arg	Arg	Arg 70	Cys	Glu	Gly	Pro	Met 75	Arg	Ala	Pro	Leu	Leu 80
Pro	Pro	Ala	Pro	Val 85	Val	Leu	Ser	Leu	Leu 90	Ile	Leu	Gly	Ser	Gly 95	His
Tyr	Ala	Ala	Gly 100	Leu	Asp	Leu	Asn	Asp 105	Thr	Tyr	Ser	Gly	Lys 110	Arg	Glu
Pro	Phe	Ser 115	Gly	Asp	His	Ser	Ala 120	Asp	Gly	Phe	Glu	Val 125	Thr	Ser	Arg
Ser	Glu 130	Met	Ser	Ser	Gly	Ser 135	Glu	Ile	Ser	Pro	Val 140	Ser	Glu	Met	Pro
Ser 145	Ser	Ser	Glu	Pro	Ser 150	Ser	Gly	Ala	Asp	Туг 155	Asp	Tyr	Ser	Glu	Glu 160
Туг	Asp	Asn	Glu	Pro 165	Gln	Ile	Pro	Gly	Туг 170	Ile	Val	Asp	Asp	Ser 175	Va1
Arg	Val	Glu	Gln 180	Val	Val	Lys	Pro	Pro 185	Gln	Asn	Lys	Thr	Glu 190	Ser	Glu
Asn	Thr	Ser 195	Asp	Lys	Pro	Lys	Arg 200	Lys	Lys	Lys	Gly	Gly 205	Lys	Asn	Gly
Lys	Asn 210	Arg	Arg	Asn	Arg	Lys 215		Lys	Asn	Pro	Cys 220	Asn	Ala	Glu	Phe
Gln 225	Asn	Phe	Cys	Ile	His 230	Gly	Glu	Cys	Lys	Tyr 235	Ile	Glu	His	Leu	Glu 240
Ala	Val	Thr	Cys	Lys 245	Cys	Gln	Gln	Glu	Tyr 250	Phe	Gly	Glu	Arg	Cys 255	Gly
Glu	Lys	Ser	Met 260	Lys	Thr	His	Ser	Met 265		Asp	Ser	Ser	Leu 270		Lys
Ile	Ala	Leu 275		Ala	Ile	Ala	Ala 280		Met	Ser	Ala	Val 285		Leu	Thi
Ala	Val 290	Ala	Val	Ile	Thr	Val 295		Leu	Arg	'Arg	Gln 300		Val	Arg	Lys
Туг 305		Gly	Glu	Ala	Glu 310		Arg	Lys	Lys	Leu 315	Arg	Gln	Glu	Asn	Gl ₃ 320
Asn	Val	His	Ala	Ile 325	Ala										

<210> 5874 <211> 58 <212> PRT <213> Homo sapiens <400> 5874 Ala Pro Gln Arg Ser Ser Leu Val Asp Arg Val Arg Leu His Leu Lys 10 Lys Ile Lys Ile Lys Leu Phe Ser Glu Glu Gln Met Ser His Ser Ser 25 Asn Asp Pro Leu Ser Arg Asn Met Val Glu Phe Ser Pro Ile Gln Val 35 40 Ser His Ile Gln Lys Thr Thr Ser His Tyr 55 <210> 5875 <211> 93 <212> PRT <213> Homo sapiens <400> 5875 Gly Arg Leu Trp Ser Arg Glu Glu Ala Met Ala Thr Met Glu Asn Lys Val Ile Cys Ala Leu Val Leu Val Ser Met Leu Ala Leu Gly Thr Leu 25 Ala Glu Ala Gln Thr Glu Thr Cys Thr Val Ala Pro Arg Glu Arg Gln 40 Asn Cys Gly Phe Pro Gly Val Thr Pro Ser Gln Cys Ala Asn Lys Gly Cys Cys Phe Asp Asp Thr Val Arg Gly Val Pro Trp Cys Phe Tyr Pro 70

Asn Thr Ile Asp Val Pro Pro Glu Glu Glu Cys Glu Phe

85

<210> 5876 <211> 55

10

45

25

40

<212> PRT <213> Homo sapiens <220> <221> SITE <222> (24) <223> Xaa equals any of the naturally occurring L-amino acids <400> 5876 Lys Val Pro Val Arg Asn Ser Arg Val Asp Pro Arg Val Arg Ile Ser Pro Arg Ala Arg Leu Pro Pro Xaa Pro Asp Thr Ser Asp Thr Leu Leu Gln Leu Cys Leu Gly Ser Gln His Arg Leu Thr Ala Leu Thr Leu Thr 35 Thr Gln Asn Trp Pro Lys Asn 50 <210> 5877 <211> 214 <212> PRT

<213> Homo sapiens

<400> 5877

Ala Gly Arg Pro Met Lys Val Gly His Val Thr Glu Arg Thr Asp Ala 5

Ser Ser Ala Ser Ser Phe Leu Asp Ser Asp Glu Leu Glu Arg Thr Gly 25 20

Ile Asp Leu Gly Thr Thr Gly Arg Leu Gln Leu Met Ala Arg Leu Ala

Glu Gly Thr Gly Leu Gln Ile Pro Pro Ala Ala Gln Gln Ala Leu Gln 60 50 55

Met Ser Gly Ser Leu Ala Phe Gly Ala Val Ala Glu Phe Ser Phe Val 75 65 70

Ile Asp Leu Gln Thr Arg Leu Ser Gln Gln Thr Glu Ala Ser Ala Leu 85

Ala Ala Ala Ser Val Gln Pro Leu Ala Thr Gln Cys Phe Gln Leu 105

Ser Asn Met Phe Asn Pro Gln Thr Glu Glu Glu Val Gly Trp Asp Thr

5166

115 120 125 Glu Ile Lys Asp Asp Val Ile Glu Glu Cys Asn Lys His Gly Gly Val 135 140 Ile His Ile Tyr Val Asp Lys Asn Ser Ala Gln Gly Asn Val Tyr Val 150 155 Lys Cys Pro Ser Ile Ala Ala Ile Ala Ala Val Asn Ala Leu His 165 170 175 Gly Arg Trp Phe Ala Gly Lys Met Ile Thr Ala Ala Tyr Val Pro Leu 180 185 Pro Thr Tyr His Asn Leu Phe Pro Asp Ser Met Thr Ala Thr Gln Leu 200 Leu Val Pro Ser Arg Arg 210 <210> 5878 <211> 91 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (47) <223> Xaa equals any of the naturally occurring L-amino acids <400> 5878 Asn Cys Ser Pro Ala Phe Tyr Gly Ser Ser Leu Pro Cys Pro Gln Thr 5 15 Gln Gln Lys Arg Arg Gly Arg Ile Arg Gly Leu Ser Arg Pro Ala Pro Leu Pro Thr Cys His Thr Arg Cys Glu Phe Glu His Ser Pro Xaa Met Glu Thr Ser His Pro Gln Leu Asn Asn Gly Pro Phe Met Pro Thr Leu 50 55 Pro Thr Arg Arg Gly Gln Arg Cys Thr Arg Arg Pro Ser Ser Pro 65 75 Ser Ser Ala Pro Ser His Tyr Ser Trp Phe Tyr

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<210> 5879
<211> 52
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<213> Homo sapiens
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Thr Gln Lys Thr Ser Ser Leu Leu Pro Ala Leu Ser Leu Gln Leu Pro
Leu Leu Thr Arg Phe Ser Ile Met Cys Ser Val Lys Glu Glu Phe Trp
                                 25
             20
Arg Val Gln Ser Ile Ile Thr Glu Leu Val Leu Lys Gly Glu Phe Gly
                             40
Val Lys Arg Gln
   50
<210> 5880
<211> 43
<212> PRT
<213> Homo sapiens
<220>
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<400> 5880
Ala Asp Asp Ser Phe Phe Thr Gly Ile Ala Phe Xaa Thr Ser Ile Ser
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                                    10
Val Asn Asn Cys Val Cys His Phe Ser Pro Leu Lys Ser Asp Gln Asp
                                 25
            20
Tyr Ile Leu Lys Glu Gly Asp Leu Val Lys Met
         35
                            40
<210> 5881
<211> 131
<212> PRT
<213> Homo sapiens
<400> 5881
Pro Thr Arg Pro Ala Gln Thr Ala Leu Pro Tyr Ala Met Asn Ser Glu
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1

5168

10

15 Phe Ser Ser Val Leu Ala Ala Gln Leu Lys His His Ser Glu Asn Lys 20 25 Gly Leu Asp Lys Val Met Glu Thr Gln Ala Gln Val Asp Glu Leu Lys 35 40 Gly Ile Met Val Arg Asn Ile Asp Leu Val Ala Gln Arg Gly Glu Arg 55 Leu Glu Leu Leu Ile Asp Lys Thr Glu Asn Leu Val Asp Ser Ser Val Thr Phe Lys Thr Thr Ser Arg Asn Leu Ala Arg Ala Met Cys Met Lys 85 Asn Leu Lys Leu Thr Ile Ile Ile Ile Ile Val Ser Ile Val Phe Ile 100 105 Tyr Ile Ile Val Ser Pro Leu Cys Gly Gly Phe Thr Trp Pro Ser Cys 115 120 Val Lys Lys 130 <210> 5882 <211> 226 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (197) <223> Xaa equals any of the naturally occurring L-amino acids <400> 5882 Asn Phe Gly Ile Lys Asp Lys Pro Thr Phe Ile Lys Gly Ile Gly Ala 10 Gly Gly Ser Ile Thr Gly Leu Lys Phe Asn Pro Leu Asn Thr Asn Gln 20 Phe Tyr Ala Ser Ser Met Glu Gly Thr Thr Arg Leu Gln Asp Phe Lys 35 40 Gly Asn Ile Leu Arg Val Phe Ala Ser Ser Asp Thr Ile Asn Ile Trp 55 60

5169

Phe Cys Ser Leu Asp Val Ser Ala Ser Ser Arg Met Val Val Thr Gly Asp Asn Val Gly Asn Val Ile Leu Leu Asn Met Asp Gly Lys Glu Leu Trp Asn Leu Arg Met His Lys Lys Val Thr His Val Ala Leu Asn 105 100 Pro Cys Cys Asp Trp Phe Leu Ala Thr Ala Ser Val Asp Gln Thr Val 120 Lys Ile Trp Asp Leu Arg Gln Val Arg Gly Lys Ala Ser Phe Leu Tyr Ser Leu Pro His Arg His Pro Val Asn Ala Ala Cys Phe Ser Pro Asp 145 150 155 160 Gly Ala Arg Leu Leu Thr Thr Asp Gln Lys Ser Glu Ile Arg Val Tyr 165 170 Ser Ala Ser Gln Trp Asp Cys Pro Leu Gly Leu Ile Pro His Pro His 185 Arg His Phe Gln Xaa Leu Thr Pro Ile Lys Ala Ala Trp Asp Pro Arg 200 205 Tyr Asn Leu Ile Val Val Gly Arg Tyr Pro Asp Pro Asn Phe Lys Ser 210 215 Cys Thr 225 <210> 5883 <211> 484 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (25) <223> Xaa equals any of the naturally occurring L-amino acids Trp Leu Leu Arg Ser Pro Gly Lys Leu Thr Ala Arg Glu Arg Ile Ser Leu Leu Asp Pro Gly Ser Phe Xaa Glu Ser Asp Met Phe Val Glu 20 25

His	Arg	7 Cys 35		a Asp	Phe	Gly	Met 40		a Ala	Asp	Lys	Asn 45		Phe	Pro
Gly	Asp 50	Ser	Val	. Val	Thr	Gly 55		Gly	Arg	Ile	Asn 60		Arg	Leu	Val
Tyr 65	Val	Phe	: Ser	Gln	Asp 70	Phe	Thr	. Val	. Phe	Gly 75		Ser	Leu	Ser	Gly 80
Ala	His	Ala	Gln	Lys 85	Ile	Суз	Lys	Ile	Met 90		Gln	Ala	Ile	Thr 95	
Gly	Ala	Pro	Val 100		Gly	Leu	Asn	Asp		Gly	Gly	Ala	Arg 110	Ile	Gln
Glu	Gly	Val 115	Glu	Ser	Leu	Ala	Gly 120		Ala	Asp	Ile	Phe 125	Leu	Arg	Asn
Val	Thr 130	Ala	Ser	Gly	Val	Ile 135	Pro	Gln	Ile	Ser	Leu 140	Ile	Met	Gly	Pro
Cys 145	Ala	Gly	Gly	Ala	Val 150	Tyr	Ser	Pro	Ala	Leu 155	Thr	Asp	Phe	Thr	Phe 160
Met	Val	Lys	Asp	Thr 165	Ser	Tyr	Leu	Phe	Ile 170	Thr	Gly	Pro	Asp	Val 175	Val
Lys	Ser	Val	Thr 180	Asn	Glu	Asp	Val	Thr 185	Gln	Glu	Glu	Leu	Gly 190	Gly	Ala
Lys	Thr	His 195	Thr	Thr	Met	Ser	Gly 200	Val	Ala	His	Arg	Ala 205	Phe	Glu	Asn
Asp	Val 210	Asp	Ala	Leu	Cys	Asn 215	Leu	Arg	Asp	Phe	Phe 220	Asn	Tyr	Leu	Pro
Leu 225	Ser	Ser	Gln	Asp	Pro 230	Ala	Pro	Val	Arg	Glu 235		His	Asp	Pro	Ser 240
Asp	Arg	Leu	Val	Pro 245	Glu	Leu	Asp	Thr	Ile 250	Val	Pro	Leu	Glu	Ser 255	Thr
Lys	Ala	Tyr	Asn 260	Met	Val	Asp	Ile	Ile 265	His	Ser	Val	Val	Asp 270	Glu	Arg
Glu	Phe	Phe 275	Glu	Ile	Met	Pro	Asn 280	Tyr	Ala	Lys	Asn	Ile 285	Ile	Val	Gly
Phe	Ala 290	Arg	Met	Asn	Gly	Arg 295	Thr	Val	Gly	Ile	Val 300	Gly	Asn	Gln	Pro

5171

Lys Val Ala Ser Gly Cys Leu Asp Ile Asn Ser Ser Val Lys Gly Ala 305 310 315 Arg Phe Val Arg Phe Cys Asp Ala Phe Asn Ile Pro Leu Ile Thr Phe 325 330 Val Asp Val Pro Gly Phe Leu Pro Gly Thr Ala Gln Glu Tyr Gly Gly 340 345 Ile Ile Arg His Gly Ala Lys Leu Leu Tyr Ala Phe Ala Glu Ala Thr 360 Val Pro Lys Val Thr Val Ile Thr Arg Lys Ala Tyr Gly Gly Ala Tyr 375 370 Asp Val Met Ser Ser Lys His Leu Cys Gly Asp Thr Asn Tyr Ala Trp 390 395 385 Pro Thr Ala Glu Ile Ala Val Met Gly Ala Lys Gly Ala Val Glu Ile 405 410 Ile Phe Lys Gly His Glu Asn Val Glu Ala Ala Gln Ala Glu Tyr Ile 430 425 420 Glu Lys Phe Ala Asn Pro Phe Pro Ala Ala Val Arg Gly Phe Val Asp 440 435 Asp Ile Ile Gln Pro Ser Ser Thr Arg Ala Arg Ile Cys Cys Asp Leu 455 460 Asp Val Leu Ala Ser Lys Lys Val Gln Arg Pro Trp Arg Lys His Ala 470 475 Asn Ile Pro Leu <210> 5884 <211> 344 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (56) <223> Xaa equals any of the naturally occurring L-amino acids

<220> <221> SITE

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<222> (62)
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<220>
<221> SITE
<222> (327)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5884
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                                     10
Asp His Cys Pro Tyr Met Ala Glu Ser Cys Arg Gln His Val Glu Phe
             20
Asp Met Leu Val Lys Asn Arg Thr Gln Gly Ile Ile Pro Leu Ala Pro
                             40
Ile Ser Lys Ser Leu Trp Thr Xaa Ser Val Glu Ser Ser Xaa Glu Tyr
                         55
Cys Arg Ile Met Tyr Asp Ile Phe Pro Phe Lys Lys Leu Val Asn Phe
 65
                     70
                                         75
Ile Val Ser Asp Ser Gly Ala His Val Leu Asn Ser Trp Thr Gln Glu
Asp Gln Asn Leu Gln Glu Leu Met Ala Ala Leu Ala Ala Xaa Gly Pro
                                105
Pro Asn Pro Arg Ala Asp Pro Glu Cys Cys Ser Ile Leu His Gly Leu
        115
                            120
Val Ala Ala Val Glu Thr Leu Cys Lys Ile Thr Glu Tyr Gln His Glu
    130
Ala Arg Thr Leu Leu Met Glu Asn Ala Glu Arg Val Gly Asn Arg Gly
                    150
Arg Ile Ile Cys Ile Thr Asn Ala Lys Ser Asp Ser His Val Arg Met
                                    170
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5173

Leu Glu Asp Cys Val Gln Glu Thr Ile His Glu His Asn Lys Leu Ala 190 180 185 Ala Asn Ser Asp His Leu Met Gln Ile Gln Lys Cys Glu Leu Val Leu 205 200 195 Ile His Thr Tyr Pro Val Gly Glu Asp Ser Leu Val Ser Asp Arg Ser 215 Lys Lys Glu Leu Ser Pro Val Leu Thr Ser Glu Val His Ser Val Arg 230 235 Ala Gly Arg His Leu Ala Thr Lys Leu Asn Ile Leu Val Gln Gln His 250 245 Phe Asp Leu Ala Ser Thr Thr Ile Thr Asn Ile Pro Met Lys Glu Glu 260 Gln His Ala Asn Thr Ser Ala Asn Tyr Asp Val Glu Leu Leu His His 280 Lys Asp Ala His Val Asp Phe Leu Lys Ser Gly Asp Ser His Leu Gly 290 295 Gly Gly Ser Arg Glu Gly Ser Phe Lys Glu Thr Ile Thr Leu Lys Trp 315 305 Cys Thr Pro Arg Xaa Lys Xaa Thr Leu Cys Phe Leu Leu Phe Gln Glu 330 325 Leu His Tyr Cys Thr Gly Ala Leu 340 <210> 5885 <211> 365 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (155) <223> Xaa equals any of the naturally occurring L-amino acids

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<22	0>														
<221> SITE															
<222> (192)															
<22	3> X	aa e	qua1	s an	y of	the	nat	ural	ly o	ccur	ring	L-a	mino	aci	ds
<40	0> 5	885													
Pro 1	Glu	His	Ser	Trp 5		Ser	Ser	Ser	Ser 10	Thr	Lys	Arg	Trp	Thr 15	Glu
Lys	Thr	Ala	G1u 20	Thr	Met	Gly	Pro	Pro 25	Ser	Ala	Pro	Pro	Cys 30	Arg	Leu
His	Val	Pro 35	Trp	Lys	Glu	Val	Leu 40	Leu	Thr	Ala	Ser	Leu 45	Leu	Thr	Phe
Trp	Asn 50	Pro	Pro	Thr	Thr	Ala 55	Lys	Leu	Thr	Ile	Glu 60	Ser	Thr	Pro	Phe
Asn 65	Val	Ala	Glu	Gly	Lys 70	Glu	Val	Leu	Leu	Leu 75	Ala	His	Asn	Leu	Pro 80
Gln	Asn	Arg	Ile	Gly 85	Tyr	Ser	Trp	Tyr	Lys 90	Gly	Glu	Arg	Val	Asp 95	Gly
Asn	Ser	Leu	Ile 100	Val	Gly	Tyr	Val	Ile 105	Gly	Thr	Gln	Gln	Ala 110	Thr	Pro
Gly	Pro	Ala 115	Tyr	Ser	Gly	Arg	Glu 120	Thr	Ile	Tyr	Pro	Asn 125	Ala	Ser	Leu
Leu	Ile 130	Gln	Asn	Val	Thr	Gln 135	Asn	Asp	Thr	Gly	Phe 140	Tyr	Thr	Leu	Gln
Val 145	Ile	Lys	Ser	Asp	Leu 150	Val	Asn	Glu	Glu	Xaa 155	Thr	Gly	Gln	Phe	His 160
Val	Туг	Pro	Glu	Leu 165	Pro	Lys	Pro	Ser	Ile 170	Xaa	Ser	Asn	Asn	Ser 175	Asn
Pro	Val	Glu	Asp 180	Lys	Asp	Ala	Val	Ala 185		Thr	Cys	Glu	Pro 190	Glu	Xaa
Gln	Asn	Thr 195	Thr	Tyr	Leu	Trp	Trp 200	Val	Asn	Gly	Gln	Ser 205	Leu	Pro	Val
Ser	Pro 210	Arg	Leu	Gln	Leu	Ser 215	Asn	Gly	Asn	Met	Thr 220	Leu	Thr	Leu	Leu
Ser 225	Val	Lys	Arg	Asn	Asp 230	Ala	Gly	Ser	Tyr	Glu 235	Cys	Glu	Ile	Gln	Asn 240

5175

Pro Ala Ser Ala Asn Arg Ser Asp Pro Val Thr Leu Asn Val Leu Tyr
245 250 255

Gly Pro Asp Gly Pro Thr Ile Ser Pro Ser Lys Ala Asn Tyr Arg Pro 260 265 270

Gly Glu Asn Leu Asn Leu Ser Cys His Ala Ala Ser Asn Pro Pro Ala 275 280 285

Gln Tyr Ser Trp Phe Ile Asn Gly Thr Phe Gln Gln Ser Thr Gln Glu 290 295 300

Leu Phe Ile Pro Asn Ile Thr Val Asn Asn Ser Gly Ser Tyr Met Cys 305 310 315 320

Gln Ala His Asn Ser Ala Thr Gly Leu Asn Arg Thr Thr Val Thr Met 325 330 335

Ile Thr Val Ser Gly Ser Ala Pro Val Leu Ser Ala Val Ala Thr Val 340 345 350

Gly Ile Thr Ile Gly Val Leu Ala Arg Val Ala Leu Ile 355 360 365

<210> 5886

<211> 93

<212> PRT

<213> Homo sapiens

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<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5886

Asp Pro Val Ser Glu Glu Gly Glu Gly Leu Ser Cys Xaa Asp Gln Xaa 1 5 10 15

His Arg Asp Pro Leu Gly Arg Gly Ala Gly Arg Ala Lys Lys Arg Thr 20 25 30

Cys Lys Gly Arg Arg Arg Asn Pro Asp Ala Ala Ser Glu Val Gln Ala 35 40 45

His Leu Val Asn Met His Cys His Glu Phe Leu Pro Asp Val Leu Leu 50 55 60

Phe Ser Phe Thr Tyr Ser Phe Asp Gln Ile Val Cys Gly Leu Asn Lys 65 70 75 80

Met Lys Ile Ser Ser Pro Leu Phe Leu Gly Asn Thr Leu 85 90

<210> 5887

<211> 82

<212> PRT

<213> Homo sapiens

<400> 5887

Leu Cys Glu Lys Trp Ala Gln Trp Pro Ser Pro Glu Ile Ser Phe Ile
1 5 10 15

Leu Gly Gln Glu Phe Asp Glu Val Thr Ala Asp Asp Arg Lys Val Lys
20 25 30

Ser Thr Ile Thr Leu Asp Gly Gly Val Leu Val His Val Gln Lys Trp 35 40 45

Asp Gly Lys Ser Thr Thr Ile Lys Arg Lys Arg Glu Asp Asp Lys Leu 50 55 60

Val Val Glu Cys Val Met Lys Gly Val Thr Ser Thr Arg Val Tyr Glu 65 70 75 80

Arg Ala

<210> 5888

<211> 102

<212> PRT

<213> Homo sapiens

<400> 5888

Asp Leu His Ser Gln Trp Gly Thr Trp Pro Pro Ile Leu Gly Asp Leu

1 5 10 15

Arg Lys Arg Thr Ser Pro Trp Gly Glu Gly Trp Val Gly Pro Glu Gly 20 25 30

Pro Val Pro Ser Ser Val Leu Arg Gly Arg Ala Thr Cys Ser Asn Gly
35 40 45

5177

Ile Cys Ile Leu Ala Pro Leu His Leu Leu Ser Pro Ala Glu Ser Phe 50 55 60

Pro Ser Lys Pro Lys Ser Cys His Cys Phe Phe Leu Pro Gly Lys Asn 65 70 75 80

Ala Trp Thr Leu Pro Gly Asp Arg Leu Lys Pro Glu Gln Cys His Thr 85 90 95

Leu Ala Leu Ile Pro Cys 100

<210> 5889

<211> 51

<212> PRT

<213> Homo sapiens

<400> 5889

Tyr Pro Leu Phe Thr Ile Met Leu Phe Glu Thr Lys Val Thr Met Tyr
1 5 10 15

Thr Ile Leu Leu Glu Glu Val Phe Asp Arg Lys Ser Asn Ile Met Ser 20 25 30

Phe Ile Asn Phe Leu Val Leu Lys Lys Ala Val Ile Tyr Ile Tyr Lys 35 40 45

Leu Cys Lys 50

<210> 5890

<211> 239

<212> PRT

<213> Homo sapiens

<400> 5890

Glu Tyr Gly Ser Pro Ser Val Ile Ser Val Ser Lys Gly Ser Pro Asp 1 5 10 15

Gly Ser His Pro Val Val Val Ala Pro Tyr Asn Gly Gly Pro Pro Arg 20 25 30

Thr Cys Pro Lys Ile Lys Gln Glu Ala Val Ser Ser Cys Thr His Leu 35 40 45

Gly Ala Gly Pro Pro Leu Ser Asn Gly His Arg Pro Ala Ala His Asp

5178

50 55 60 Phe Pro Leu Gly Arg Gln Leu Pro Ser Arg Thr Thr Pro Thr Leu Gly 70 75 Leu Glu Glu Val Leu Ser Ser Arg Asp Cys His Pro Ala Leu Pro Leu 90 Pro Pro Gly Phe His Pro His Pro Gly Pro Asn Tyr Pro Ser Phe Leu 100 105 Pro Asp Gln Met Gln Pro Gln Val Pro Pro Leu His Tyr Gln Glu Leu 120 125 Met Pro Pro Gly Ser Cys Met Pro Glu Glu Pro Lys Pro Lys Arg Gly 130 135 Arg Arg Ser Trp Pro Arg Lys Arg Thr Ala Thr His Thr Cys Asp Tyr 145 · 150 155 Ala Gly Cys Gly Lys Thr Tyr Thr Lys Ser Ser His Leu Lys Ala His 165 170 Leu Arg Thr His Thr Gly Glu Lys Pro Tyr His Cys Asp Trp Asp Gly 185 Cys Gly Trp Lys Phe Ala Arg Ser Asp Glu Leu Thr Arg His Tyr Arg 195 205 Lys His Thr Gly His Arg Pro Phe Gln Cys Gln Lys Cys Asp Arg Ala 210 215 Phe Ser Arg Ser Asp His Leu Ala Leu His Met Lys Arg His Phe 230 235 <210> 5891 <211> 269 <212> PRT <213> Homo sapiens <400> 5891 Leu Val Pro Asn Ser Ala Arg Val Gly Thr Arg Ser Lys Gly Val Cys Val His Gly Asn Ala Glu Tyr Gln Pro Gly Ser Pro Val Tyr Ser Ser

25

45

Lys Cys Gln Asp Cys Val Cys Thr Asp Lys Val Asp Asn Asn Thr Leu

5179

Leu Asn Val Ile Ala Cys Thr His Val Pro Cys Asn Thr Ser Cys Ser 50 Pro Gly Phe Glu Leu Met Glu Ala Pro Gly Glu Cys Cys Lys Lys Cys 70 Glu Gln Thr His Cys Ile Ile Lys Arg Pro Asp Asn Gln His Val Ile 85 90 Leu Lys Pro Gly Asp Phe Lys Ser Asp Pro Lys Asn Asn Cys Thr Phe 105 Phe Ser Cys Val Lys Ile His Asn Gln Leu Ile Ser Ser Val Ser Asn 120 Ile Thr Cys Pro Asn Phe Asp Ala Ser Ile Cys Ile Pro Gly Ser Ile 135 Thr Phe Met Pro Asn Gly Cys Cys Lys Thr Cys Thr Pro Arg Asn Glu 150 Thr Arg Val Pro Cys Ser Thr Val Pro Val Thr Thr Glu Val Ser Tyr 165 170 Ala Gly Cys Thr Lys Thr Val Leu Met Asn His Cys Ser Gly Ser Cys 180 185 Gly Thr Phe Val Met Tyr Ser Ala Lys Ala Gln Ala Leu Asp His Ser 200 Cys Ser Cys Cys Lys Glu Glu Lys Thr Ser Gln Arg Glu Val Val Leu 215 Ser Cys Pro Asn Gly Gly Ser Leu Thr His Thr Tyr Thr His Ile Glu 225 230 235 Ser Cys Gln Cys Gln Asp Thr Val Cys Gly Leu Pro Thr Gly Thr Ser 250 245 Arg Arg Ala Arg Arg Ser Pro Arg His Leu Gly Ser Gly 260 265

<210> 5892

<211> 227

<212> PRT

<213> Homo sapiens

<220>

<22	1> S	ITE													
	2> (: 3> X		qual	s an	y of	the	nati	ural	ly o	ccur:	ring	L-ar	nino	acio	ds
	0> 5														
Ala 1	Сув	His	Glu	Lys 5	Val	Val	Asn	Ile	Gln 10	Lys	Asp	Pro	Gly	Glu 15	Ser
Leu	Gly	Met	Thr 20	Val	Ala	Gly	Gly	Ala 25	Ser	His	Arg	Xaa	Trp	Asp	Leu
Pro	Ile	Tyr 35	Val	Ile	Ser	Val	Glu 40	Pro	Gly	Gly	Val	Ile 45	Ser	Arg	Asp
Gly	Arg 50	Ile	Lys	Thr	Gly	Asp 55	Ile	Leu	Leu	Asn	Val 60	Asp	Gly	Val	Glu
Leu 65	Thr	Glu	Val	Ser	Arg 70	Ser	Glu	Ala	Val	Ala 75	Leu	Leu	Lys	Arg	Thr 80
Ser	Ser	Ser	Ile	Val 85	Leu	Lys	Ala	Leu	Glu 90	Val	Lys	Glu	Туr	Glu 95	Pro
Gln	Glu	Asp	Cys 100	Ser	Ser	Pro	Ala	Ala 105	Leu	Asp	Ser	Asn	His 110	Asn	Met
Ala	Pro	Pro 115	Ser	Asp	Trp	Ser	Pro 120	Ser	Trp	Val	Met	Trp 125	Leu	Glu	Leu
Pro	Arg 130	Cys	Leu	Tyr	Asn	Cys 135	Lys	Asp	Ile	Val	Leu 140	Arg	Arg	Asn	Thr
Ala 145	Gly	Ser	Leu	Gly	Phe 150	Суз	Ile	Val	Gly	Gly 155	Tyr	Glu	Glu	Tyr	Asn 160
Gly	Asn	Lys	Pro	Phe 165	Phe	Ile	Lys	Ser	Ile 170	Val	Glu	Gly	Thr	Pro 175	Ala
Tyr	Asn	Asp	Gly 180	Arg	Ile	Arg	Cys	Gly 185	Asp	Ile	Leu	Leu	Ala 190	Val	Asn
Gly	Arg	Ser 195	Thr	Ser	Gly	Met	Ile 200	His	Ala	Cys	Leu	Ala 205	Arg	Leu	Leu
Lys	Glu	Leu	Lys	Gly	Arg	Ile	Thr	Leu	Thr	Ile	Val	Ser	Trp	Pro	Gly

215

220

Thr Phe Leu 225

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<210> 5893
<211> 88
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (10)
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<400> 5893
Ser Ser His Phe Tyr Ala Lys Gln Glu Xaa Ser Ile Thr Leu Val Leu
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Met Tyr Thr Leu His Phe Asp Lys Ile Asn Phe Val Val Ser Phe Glu
Val Asp Arg Cys Val Val Leu Leu His Phe Leu Leu Phe Cys Val
                             40
         35
Trp Ser Cys Ile Pro Glu Thr Asn Glu Ala Leu Gly Tyr Phe Ile Lys
                         55
Cys Ser Asp Cys Gln Gln Arg Ala Gly Phe Leu Phe Leu Cys Cys Gly
                    70
                                        75
Val Asn Arg Thr Met Val Trp Glu
                 85
<210> 5894
<211> 571
<212> PRT
<213> Homo sapiens
<400> 5894
Arg Val Arg Ser Lys Val Pro Arg Cys Val Asn Thr Gln Pro Gly Phe
                5
His Cys Leu Pro Cys Pro Pro Arg Tyr Arg Gly Asn Gln Pro Val Gly
             20
                                 25
Val Gly Leu Glu Ala Ala Lys Thr Glu Lys Gln Val Cys Glu Pro Glu
                              40
         35
Asn Pro Cys Lys Asp Lys Thr His Asn Cys His Lys His Ala Glu Cys
                         55
Ile Tyr Leu Gly His Phe Ser Asp Pro Met Tyr Lys Cys Glu Cys Gln
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5182 ·

65					70					75					80
Thr	Gly	Tyr	Ala	Gly 85	Asp	Gly	Leu	Ile	Cys 90	Gly	Glu	Asp	Ser	Asp 95	Leu
Asp	Gly	Trp	Pro 100	Asn	Leu	Asn	Leu	Val 105	Cys	Ala	Thr	Asn	Ala 110	Thr	Tyr
His	Суѕ	Ile 115	Lys	Asp	Asn	Cys	Pro 120	His	Leu	Pro	Asn	Ser 125	Gly	Gln	Glu
Asp	Phe 130	Asp	Lys	Asp	Gly	Ile 135	Gly	Asp	Ala	Cys	Asp 140	Asp	Asp	Asp	Asp
Asn 145	Asp	Gly	Val	Thr	Asp 150	Glu	Lys	Asp	Asn	Cys 155	Gln	Leu	Leu	Phe	Asn 160
Pro	Arg	Gln	Ala	Asp 165	Tyr	Asp	Lys	Asp	Glu 170	Val	Gly	Asp	Arg	Cys 175	Asp
Asn	Cys	Pro	Туг 180	Val	His	Asn	Pro	Ala 185	Gln	Ile	Asp	Thr	Asp 190	Asn	Asn
Gly	Glu	Gly 195	Asp	Ala	Cys	Ser	Val 200	Asp	Ile	Asp	Gly	Asp 205	Asp	Val	Phe
Asn	Glu 210	Arg	Asp	Asn	Cys	Pro 215	Tyr	Val	Tyr	Asn	Thr 220	Asp	Gln	Arg	Asp
Thr 225	Asp	Gly	Asp	Gly	Val 230	Gly	Asp	His	Cys	Asp 235	Asn	Cys	Pro	Leu	Val 240
His	Asn	Pro	Asp	Gln 2 4 5	Thr	Asp	Val	Asp	Asn 250	Asp	Leu	Val	Gly	Asp 255	Gln
Cys	Asp	Asn	Asn 260	Glu	Asp	Ile	Asp	Asp 265	Asp	Gly	His	Gln	Asn 270	Asn	Gln
Asp	Asn	Cys 275	Pro	Tyr	Ile	Ser	Asn 280	Ala	Asn	Gln	Ala	Asp 285	His	Asp	Arg
Asp	Gly 290	Gln	Gly	Asp	Ala	Cys 295	Asp	Pro	Asp	Asp	Asp. 300	Asn	Asp	Gly	Val
Pro 305	Asp	Asp	Arg	Asp	Asn 310	Cys	Arg	Leu	Val	Phe 315	Asn	Pro	Asp	Gln	Glu 320
Asp	Leu	Asp	Gly	Asp 325	Gly	Arg	Gly	Asp	Ile 330	Суз	Lys	Asp	Asp	Phe 335	Asp
Asn	Asp	Asn	Ile	Pro	Asp	Ile	Asp	Asp	Val	Cys	Pro	Glu	Asn	Asn	Ala

Ile Ser Glu Thr Asp Phe Arg Asn Phe Gln Met Val Pro Leu Asp Pro Lys Gly Thr Thr Gln Ile Asp Pro Asn Trp Val Ile Arg His Gln Gly Lys Glu Leu Val Gln Thr Ala Asn Ser Asp Pro Gly Ile Ala Val Gly Phe Asp Glu Phe Gly Ser Val Asp Phe Ser Gly Thr Phe Tyr Val Asn Thr Asp Arg Asp Asp Tyr Ala Gly Phe Val Phe Gly Tyr Gln Ser Ser Ser Arg Phe Tyr Val Val Met Trp Lys Gln Val Thr Gln Thr Tyr Trp Glu Asp Gln Pro Thr Arg Ala Tyr Gly Tyr Ser Gly Val Ser Leu Lys Val Val Asn Ser Thr Thr Gly Thr Gly Glu His Leu Arg Asn Ala Leu Trp His Thr Gly Asn Thr Pro Gly Gln Val Arg Thr Leu Trp His Asp Pro Arg Asn Ile Gly Trp Lys Asp Tyr Thr Ala Tyr Arg Trp His Leu Thr His Arg Pro Lys Thr Gly Tyr Ile Arg Val Leu Val His Glu Gly Lys Gln Val Met Ala Asp Ser Gly Pro Ile Tyr Asp Gln Thr Tyr Ala Gly Gly Arg Leu Gly Leu Phe Val Phe Ser Gln Glu Met Val Tyr Phe Ser Asp Leu Lys Tyr Glu Cys Arg Asp Ile

<210> 5895

<211> 59

<212> PRT

<213> Homo sapiens

<400> 5895

Asn Phe Leu Asn Glu Met Ile Asn Arg Trp Asn Leu Lys Tyr Ile Leu 1 5 10 15

Leu Gln Lys Arg Phe Leu Ser Leu Leu Tyr Phe Asp Asp Cys Phe Leu 20 25 30

Lys Ile Lys Ile Cys Ser Cys Ser Phe Ile Arg Leu Phe Lys Leu Cys 35 40 45

Phe Pro Leu Ile Phe Phe His His Cys Ile Tyr 50 55

<210> 5896

<211> 176

<212> PRT

<213> Homo sapiens

<400> 5896

Arg Pro Thr Arg Pro Ser Arg Asp Cys Glu Gly Glu Arg Ser Lys Pro
1 5 10 15

Arg Arg Trp Lys Gly Trp Arg Thr His Leu Asn Met Trp Asn Pro 20 25 30

Asn Ala Gly Gln Pro Gly Pro Asn Pro Tyr Pro Pro Asn Ile Gly Cys
35 40 45

Pro Gly Gly Ser Asn Pro Ala His Pro Pro Pro Ile Asn Pro Pro Phe 50 55 60

Pro Pro Gly Pro Cys Pro Pro Pro Gly Ala Pro His Gly Asn Pro
65 70 75 80

Ala Phe Pro Pro Gly Gly Pro Pro His Pro Val Pro Gln Pro Gly Tyr 85 90 95

Pro Gly Cys Gln Pro Leu Gly Pro Tyr Pro Pro Pro Tyr Pro Pro Pro Pro 100 105 110

Ala Pro Gly Ile Pro Pro Val Asn Pro Leu Ala Pro Gly Met Val Gly
115 120 125

Pro Ala Val Ile Val Asp Lys Lys Met Gln Lys Lys Met Lys Lys Ala 130 135 140

His Lys Lys Met His Lys His Gln Lys His His Lys Tyr His Lys His 145 150 155 160

5185

<210> 5897

<211> 205

<212> PRT

<213> Homo sapiens

<400> 5897

Leu Gly Gly Cys Arg Asp Val Pro Ser Leu Thr Leu Leu Ser Thr Val
1 5 10 15

Ala Gly Ala Leu Ile Ala Asp Phe Leu Ser Gly Leu Val His Trp Gly
20 25 30

Ala Asp Thr Trp Gly Ser Val Glu Leu Pro Ile Val Gly Lys Ala Phe
35 40 45

Ile Arg Pro Phe Arg Glu His His Ile Asp Pro Thr Ala Ile Thr Arg 50 55 60

His Asp Phe Ile Glu Thr Asn Gly Asp Asn Cys Leu Val Thr Leu Leu 65 70 75 80

Pro Leu Leu Asn Met Ala Tyr Lys Phe Arg Thr His Ser Pro Glu Ala 85 90 95

Leu Glu Gln Leu Tyr Pro Trp Glu Cys Phe Val Phe Cys Leu Ile Ile 100 105 110

Phe Gly Thr Phe Thr Asn Gln Ile His Lys Trp Ser His Thr Tyr Phe 115 120 125

Gly Leu Pro Arg Trp Val Thr Leu Leu Gln Asp Trp His Val Ile Leu 130 135 140

Pro Arg Lys His His Arg Ile His His Val Ser Pro His Glu Thr Tyr 145 150 155 160

Phe Cys Ile Thr Thr Gly Trp Leu Asn Tyr Pro Leu Glu Lys Ile Gly 165 170 175

Phe Trp Arg Arg Leu Glu Asp Leu Ile Gln Gly Leu Thr Gly Glu Lys
180 185 190

Pro Arg Ala Asp Asp Met Lys Trp Ala Gln Lys Ile Lys

5186

195 200 205

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<210> 5898
<211> 96
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (84)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (85)
<223> Xaa equals any of the naturally occurring L-amino acids
Lys Trp Leu Leu Val Asn Phe Asp Cys Ser Ala Met Trp Val Lys
                  5
                                     10
Arg Thr Asp Leu Thr Gly Ala Phe Arg Leu Asp Pro Thr Tyr Leu Lys
His Ser His Gln Asp Ser Gly Leu Ile Thr Asp Tyr Arg His Trp Gln
                             40
Ile Pro Leu Gly Arg Arg Phe Arg Ser Leu Lys Met Trp Phe Val Phe
     50
Arg Met Tyr Gly Val Lys Gly Leu Gln Ala Tyr Ile Arg Lys His Val
                     70
```

Gln Leu Ser Xaa Xaa Phe Glu Ser Leu Val Arg Gln Gly Ser Pro Leu

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<210> 5899
<211> 98
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (2)
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5187

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5899

Leu Xaa His Pro Phe Ala Val Thr Ser Tyr Gly Lys Asn Leu Tyr Phe 1 5 10 15

Thr Asp Trp Lys Met Asn Ser Val Val Ala Leu Asp Leu Ala Ile Ser 20 25 30

Lys Glu Thr Asp Ala Phe Gln Pro His Lys Gln Thr Arg Leu Tyr Gly 35 40 45

Ile Thr Thr Ala Leu Ser Gln Cys Pro Gln Gly His Asn Tyr Cys Ser 50 55 60

Val Asn Asn Gly Gly Cys Thr His Leu Cys Leu Ala Thr Pro Gly Ser 65 70 75 80

Arg Thr Cys Arg Cys Pro Asp Asn Thr Leu Gly Val Asp Cys Ile Glu 85 90 95

Gln Lys

<210> 5900

<211> 48

<212> PRT

<213> Homo sapiens

<400> 5900

Glu Ile Ser Ala Phe Leu Ile Ser Ser Asn Tyr Lys Arg Thr Ala Val 1 5 10 15

Phe Phe His Thr His Leu Pro Glu Gly Arg Ile Gly Ser His Ile Tyr 20 25 30

Val Tyr Glu Arg Lys Leu Lys Gly Lys Phe Asn Met Lys Met Lys Phe 35 40 45

<210> 5901

<211> 87

<212> PRT

<213> Homo sapiens

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<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (36)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (47)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5901
Ser Ser Leu Gly Lys Leu Asp His Gln Xaa Phe Ser Leu Asp Arg Val
Ser Leu Val Asn Lys Gly Asp Thr Gly Asn Pro Glu Trp Thr Val Ile
                                 25
Cys Val Gly Xaa His Ser Gly Ser Gly Ala Ser Asp Thr Leu Xaa Pro
                             40
Lys Thr Ala Pro Ser Phe Arg Leu Ala Tyr Glu Met Met Phe Met Cys
                         55
Phe Leu Glu Thr Arg Trp Lys Glu Arg Gly Arg Ile Asn Phe Leu Ile
                     70
Leu Leu Leu Asn Val Met
                 85
<210> 5902
<211> 83
<212> PRT
<213> Homo sapiens
<400> 5902
Leu Asn Trp Leu Leu Gln Gly Glu Gly Gln Lys Ala Arg Pro Ser Ala
                  5
Leu Glu Ser Arg Pro Glu Val Ser Gly Lys Leu Thr Leu Lys Met Asp
             20
                                 25
Thr Pro Gln Pro Ala Leu Pro Phe Gly Leu Pro Arg Ile Ser Phe Ser
                             40
                                                 45
```

5189

Gly Cys Ser His Thr Cys Ala Ile Thr Ser Ser Ser Met Thr Trp Thr
50 55 60

Gly Thr Ser Leu Thr Ile Pro Ile Gly Ile Thr Arg Ala Thr Asn Tyr 65 70 75 80

Ala Val Phe

<210> 5903

<211> 269

<212> PRT

<213> Homo sapiens

<400> 5903

Arg Arg Cys Cys His Ser Ala Thr Met Phe Glu Ala Arg Leu Val Gln
1 5 10 15

Gly Ser Ile Leu Lys Lys Val Leu Glu Ala Leu Lys Asp Leu Ile Asn 20 25 30

Glu Ala Cys Trp Asp Ile Ser Ser Ser Gly Val Asn Leu Gln Ser Met
35 40 45

Asp Ser Ser His Val Ser Leu Val Gln Leu Thr Leu Arg Ser Glu Gly 50 60

Phe Asp Thr Tyr Arg Cys Asp Arg Asn Leu Ala Met Gly Val Asn Leu 65 70 75 80

Thr Ser Met Ser Lys Ile Leu Lys Cys Ala Gly Asn Glu Asp Ile Ile 85 90 95

Thr Leu Arg Ala Glu Asp Asn Ala Asp Thr Leu Ala Leu Val Phe Glu 100 105 110

Ala Pro Asn Gln Glu Lys Val Ser Asp Tyr Glu Met Lys Leu Met Asp 115 120 125

Leu Asp Val Glu Gln Leu Gly Ile Pro Glu Gln Glu Tyr Ser Cys Val 130 135 140

Val Lys Met Pro Ser Gly Glu Phe Ala Arg Ile Cys Arg Asp Leu Ser 145 150 155 160

His Ile Gly Asp Ala Val Val Ile Ser Cys Ala Lys Asp Gly Val Lys 165 170 175

Phe Ser Ala Ser Gly Glu Leu Gly Asn Gly Asn Ile Lys Leu Ser Gln

5190

180 185 190 Thr Ser Asn Val Asp Lys Glu Glu Glu Ala Val Thr Ile Glu Met Asn 200 Glu Pro Val Gln Leu Thr Phe Ala Leu Arg Tyr Leu Asn Phe Phe Thr 210 215 Lys Ala Thr Pro Leu Ser Ser Thr Val Thr Leu Ser Met Ser Ala Asp 225 230 235 Val Pro Leu Val Val Glu Tyr Lys Ile Ala Asp Met Gly His Leu Lys 245 250 Tyr Tyr Leu Ala Pro Lys Ile Glu Asp Glu Glu Gly Ser 265 <210> 5904 <211> 211 <212> PRT <213> Homo sapiens <400> 5904 Asn Lys Met Lys Lys Val Arg Leu Lys Glu Leu Glu Ser Arg Leu Gln Gln Val Asp Gly Phe Glu Lys Pro Lys Leu Leu Leu Glu Gln Tyr Pro 25 Thr Arg Pro His Ile Ala Ala Cys Met Leu Tyr Thr Ile His Asn Thr 35 40 Tyr Asp Asp Ile Glu Asn Lys Val Val Ala Asp Leu Gly Cys Gly Cys 55 Gly Val Leu Ser Ile Gly Thr Ala Met Leu Gly Ala Gly Leu Cys Val 70 Gly Phe Asp Ile Asp Glu Asp Ala Leu Glu Ile Phe Asn Arg Asn Ala 85 90 Glu Glu Phe Glu Leu Thr Asn Ile Asp Met Val Gln Cys Asp Val Cys 100 105 Leu Leu Ser Asn Arg Met Ser Lys Ser Phe Asp Thr Val Ile Met Asn 120

Pro Pro Phe Gly Thr Lys Asn Asn Lys Gly Thr Asp Met Ala Phe Leu

140

135

5191

Lys Thr Ala Leu Glu Met Ala Arg Thr Ala Val Tyr Ser Leu His Lys
145 150 155 160

Ser Ser Thr Arg Glu His Val Gln Lys Lys Ala Ala Glu Trp Lys Ile 165 170 175

Lys Ile Asp Ile Ile Ala Glu Leu Arg Tyr Asp Leu Pro Ala Ser Tyr 180 185 190

Lys Phe His Lys Lys Lys Ser Val Asp Ile Glu Val Asp Leu Ile Arg 195 200 205

Phe Ser Phe 210

<210> 5905

<211> 77

<212> PRT

<213> Homo sapiens

<400> 5905

Lys Phe Leu Leu Lys Val Asn Phe Pro Glu Asn Gly Phe Leu Ser Pro 1 5 10 15

Asp Lys Leu Ser Leu Leu Glu Lys Leu Leu Pro Glu Arg Lys Glu Val 20 25 30

Glu Glu Thr Asp Glu Met Asp Gln Val Glu Leu Val Asp Phe Asp Pro 35 40 45

Asn Gln Glu Arg Arg Arg His Tyr Asn Gly Glu Ala Tyr Glu Asp Asp 50 55 60

Glu His His Pro Arg Gly Gly Val Gln Cys Gln Thr Ser 65 70 75

<210> 5906

<211> 142

<212> PRT

<213> Homo sapiens

<400> 5906

Ser Trp Glu Thr Glu Lys Met Gln Thr Ala Gly Ala Leu Phe Ile Ser 1 5 10 15

Pro Ala Leu Ile Arg Cys Cys Thr Arg Gly Leu Ile Arg Pro Val Ser

20 25 30 Ala Ser Phe Leu Asn Ser Pro Val Asn Ser Ser Lys Gln Pro Ser Tyr 40 Ser Asn Phe Pro Leu Gln Val Ala Arg Arg Glu Phe Gln Thr Ser Val Val Ser Arg Asp Ile Asp Thr Ala Ala Lys Phe Ile Gly Ala Gly Ala 65 70 Ala Thr Val Gly Val Ala Gly Ser Gly Ala Gly Ile Gly Thr Val Phe 85 Gly Ser Leu Ile Ile Gly Tyr Ala Arg Asn Pro Ser Leu Lys Gln Gln 105 Leu Phe Ser Tyr Ala Ile Leu Gly Phe Ala Leu Ser Glu Ala Met Gly 115 120 125 Leu Phe Cys Leu Met Val Ala Phe Leu Ile Leu Phe Ala Met 135

<210> 5907

<211> 63

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5907

Thr Cys Pro Phe Leu Gln Glu Phe Ser Leu Gly Met Trp Ser Cys Leu
1 5 10 15

His Ala Val Leu Glu Leu Ile Asp Ser Gln Gln Gln Asp Arg Tyr Trp
20 25 30

Cys Pro Pro Xaa Leu His Arg Ala Ala Ile Ala Phe Leu His Ala Leu 35 40 45

Trp Gln Asp Arg Arg Asp Ser Ala Met Leu Val Leu Arg Thr Lys
50 55 60

<210> 5908

<211> 61 <212> PRT

<213> Homo sapiens

<400> 5908

Arg Asn Lys Gly Val Arg Ala Asn Ile Gln Gln Leu Leu Ser Pro Val 1 5 10 15

Met Lys Phe Ile Gln Thr Lys Asp Gly Met Ser Leu Tyr Ile Ile Pro 20 25 30

Cys Asn Lys Tyr Ser Val Lys Leu Cys Trp Cys Asn Leu Thr Cys Phe 35 40 45

Cys Gln Ser Lys Lys Lys Lys Lys Lys Lys Lys Lys 50 55 60

<210> 5909

<211> 466

<212> PRT

<213> Homo sapiens

<400> 5909

Val Ser Pro Arg Ala Gly Gly Ala Gly Asn Asn Arg Gly Arg Ala His
1 5 10 15

Arg Ala Ser Ser Cys Ser Leu Pro Ala Pro Pro Ala Thr Leu Asp Pro
20 25 30

Arg Ile Pro Pro Ala Arg Leu Pro Ala Met Ala Asp Lys Glu Ala Ala 35 40 45

Phe Asp Asp Ala Val Glu Glu Arg Val Ile Asn Glu Glu Tyr Lys Ile
50 55 60

Trp Lys Lys Asn Thr Pro Phe Leu Tyr Asp Leu Val Met Thr His Ala 65 70 75 80

Leu Glu Trp Pro Ser Leu Thr Ala Gln Trp Leu Pro Asp Val Thr Arg 85 90 95

Pro Glu Gly Lys Asp Phe Ser Ile His Arg Leu Val Leu Gly Thr His
100 105 110

Thr Ser Asp Glu Gln Asn His Leu Val Ile Ala Ser Val Gln Leu Pro 115 120 125

Asn Asp Asp Ala Gln Phe Asp Ala Ser His Tyr Asp Ser Glu Lys Gly 130 135 140

Glu 145	Phe	Gly	Gly	Phe	Gly 150	Ser	Val	Ser	Gly	Lys 155	Ile	Glu	Ile	Glu	Ile 160
Lys	Ile	Asn	His	Glu 165	Gly	Glu	Val	Asn	Arg 170	Ala	Arg	Tyr	Met	Pro 175	Gln
Asn	Pro	Cys	Ile 180	Ile	Ala	Thr	Lys	Thr 185	Pro	Ser	Ser	Asp	Val 190	Leu	Val
Phe	Asp	Туr 195	Thr	Lys	His	Pro	Ser 200	Lys	Pro	Asp	Pro	Ser 205	Gly	Glu	Cys
Asn	Pro 210	Asp	Leu	Arg	Leu	Arg 215	Gly	His	Gln	Lys	Glu 220	Gly	Tyr	Gly	Leu
Ser 225	Trp	Asn	Pro	Asn	Leu 230	Ser	Gly	His	Leu	Leù 235	Ser	Ala	Ser	Asp	Asp 240
His	Thr	Ile	Cys	Leu 245	Trp	Asp	Ile	Ser	Ala 250	Val	Pro	Lys	Glu	Gly 255	Lys
	Va1		260			-		265					270		
Asp	Val	Ser 275	Trp	His	Leu	Leu	His 280	Glu	Ser	Leu	Phe	Gly 285	Ser	Val	Ala
Asp	Asp 290	Gln	Lys	Leu	Met	Ile 295	Trp	Asp	Thr	Arg	Ser 300	Asn	Asn	Thr	Ser
Lys 305	Pro	Ser	His	Ser	Val 310	Asp	Ala	His	Thr	Ala 315	Glu	Val	Asn	Суѕ	Leu 320
Ser	Phe	Asn	Pro	Туг 325	Ser	Glu	Phe	Ile	Leu 330	Ala	Thr	Gly	Ser	Ala 335	Asp
Lys	Thr	Val	Ala 340	Leu	Trp	Asp	Leu	Arg 345	Asn	Leu	Lys	Leu	Lys 350	Leu	His
Ser	Phe	G1u 355	Ser	His	Lys	Asp	Glu 360	Ile	Phe	Gln	Val	Gln 365	Trp	Ser	Pro
His	Asn 370	Glu	Thr	Ile	Leu	Ala 375	Ser	Ser	Gly	Thr	Asp 380	Arg	Arg	Leu	Asn
Val 385	Trp	Asp	Leu	Ser	Lys 390	Ile	Gly	Glu	Glu	Gln 395	Ser	Pro	Glu	Asp	Ala 400
Glu	Asp	Gly	Pro	Pro 405	Glu	Leu	Leu	Phe	Ile 410	His	Gly	Gly	His	Thr 415	Ala

5195

Lys Ile Ser Asp Phe Ser Trp Asn Pro Asn Glu Pro Trp Val Ile Cys 420 425 430

Ser Val Ser Glu Asp Asn Ile Met Gln Val Trp Gln Met Ala Glu Asn 435 440 445

Ile Tyr Asn Asp Glu Asp Pro Glu Gly Ser Val Asp Pro Glu Gly Gln 450 455 460

Gly Ser 465

<210> 5910

<211> 67

<212> PRT

<213> Homo sapiens

<400> 5910

Leu Leu Pro His Pro Phe Ser Cys Val His Val Ala Phe Ser Asn Pro 1 5 10 15

Gly Gln Trp Phe Leu Pro Arg Pro Cys Thr Glu Ala Gly Cys Leu Pro
20 25 30

Asp Pro Arg Arg Val Arg Glu Gly Arg Gly Ile Leu Leu Glu Leu 35 40 45

Gln Ala Leu Ala Glu Ala Val Ser His Thr Val Val Ser Ser Ala Trp 50 55 60

Ala Gly Thr 65

<210> 5911

<211> 212

<212> PRT

<213> Homo sapiens

<400> 5911

Glu Ile Ile Thr Asp Arg Gln Ser Gly Lys Lys Arg Gly Phe Gly Phe 1 5 10 15

Val Thr Phe Asp Asp His Asp Pro Val Asp Lys Ile Val Leu Gln Lys
20 25 30

Tyr His Thr Ile Asn Gly His Asn Ala Glu Val Arg Lys Ala Leu Ser

5196

35 40 45 Arg Gln Glu Met Gln Glu Val Gln Ser Ser Arg Ser Gly Arg Gly Gly 55 Asn Phe Gly Phe Gly Asp Ser Arg Gly Gly Gly Asn Phe Gly Pro Gly Pro Gly Ser Asn Phe Arg Gly Gly Ser Asp Gly Tyr Gly Ser Gly Arg Gly Phe Gly Asp Gly Tyr Asn Gly Tyr Gly Gly Pro Gly Gly 100 Gly Asn Phe Gly Gly Ser Pro Gly Tyr Gly Gly Gly Arg Gly Gly Tyr Gly Gly Gly Pro Gly Tyr Gly Asn Gln Gly Gly Gly Tyr Gly Gly 130 135 140 Gly Tyr Asp Asn Tyr Gly Gly Gly Asn Tyr Gly Ser Gly Asn Tyr Asn 145 155 Asp Phe Gly Asn Tyr Asn Gln Gln Pro Ser Asn Tyr Gly Pro Met Lys 165 170 Ser Gly Asn Phe Gly Gly Ser Arg Asn Met Gly Gly Pro Tyr Gly Gly 180 185 Gly Asn Tyr Gly Pro Gly Gly Ser Gly Gly Ser Gly Gly Tyr Gly Gly 195 200 Arg Ser Arg Tyr 210 <210> 5912 <211> 385 <212> PRT <213> Homo sapiens <400> 5912

 <400> 5912

 His Leu Glu Pro Ala Gln Leu Val Ser Lys Lys His Lys Leu Arg Ser 1

 5
 10

 Gln Lys Arg Pro Arg Arg Cys Leu Trp Leu His Gln Ser Ser Arg Arg 20
 25

 Thr Trp Leu Gly Pro Arg Arg Gly His Pro Leu Cys Arg Cys Pro Pro 35
 40

Arg	Arg 50	Pro	Trp	Leu	Trp	Leu 55	Asp	Arg	Ser	Gln	Lys 60	Leu	Thr	Ser	Ser
Ala 65	Ser	Ser	Pro	Ser	Gln 70	Pro	Tyr	Ser	Val	Gln 75	Pro	Leu	His	Leu	Pro 80
Asp	Gly	Trp	Ala	Asp 85	Pro	Ala	Gly	Leu	Arg 90	Leu	Arg	Gly	Val	Phe 95	Leu
Cys	Leu	Pro	Arg 100	Val	Leu	Gln	Arg	Arg 105	Cys	Pro	Pro	Gly	Val 110	Pro	Asn
Thr	Ser	Arg 115	Ala	Val	Gln	Glu	Ala 120	Ser	Gly	Arg	Gly	Arg 125	Ala	Ala	Arg
His	Arg 130	Asn	Ser	Leu	Gln	Arg 135	Pro	Cys	Ser	Arg	Ser 140	Gln	Ser	Pro	Gly
Gly 145	Glu	Glu	Gly	Met	Ala 150	Arg	Ala	Tyr	Ala	Val 155	Val	Cys	Asp	Суѕ	Lys 160
Leu	Phe	Leu	Tyr	Asp 165	Leu	Pro	Glu	Gly	Lys 170	Ser	Thr	Gln	Pro	Gly 175	Val
Ile	Ala	Ser	Gln 180	Val	Leu	Asp	Leu	Arg 185	Asp	Asp	Glu	Phe	Ser 190	Val	Ser
Ser	Val	Leu 195	Ala	Ser	Asp	Val	Ile 200	His	Ala	Thr	Arg	Arg 205	Asp	Ile	Pro
Cys	Ile 210	Phe	Arg	Val	Thr	Ala 215	Ser	Leu	Leu	Gly	Ala 220	Pro	Ser	Lys	Thr
Ser 225	Ser	Leu	Leu	Ile	Leu 230	Thr	Glu	Asn	Glu	Asn 235	Glu	Lys	Arg	Lys	Trp 240
Val	Gly	Ile	Leu	Glu 245	Gly	Leu	Gln	Ser	Ile 250	Leu	His	Lys	Asn	Arg 255	Leu
Arg	Asn	Gln	Val 260	Val	His	Val	Pro	Leu 265		Ala	Tyr	Asp	Ser 270	Ser	Leu
Pro	Leu	Ile 275	Lys	Ala	Ile	Leu	Thr 280		Ala	Ile	Val	Asp 285		Asp	Arg
Ile	Ala 290	Val	Gly	Leu	Glu	Glu 295		Leu	Tyr	Val	Ile 300		Val	Thr	Arg
Asp 305		Ile	Val	Arg	Ala 310		Asp	Суѕ	Lys	Lys 315		His	Gln	Ile	Glu 320

Leu Ala Pro Arg Glu Lys Ile Val Ile Leu Leu Cys Gly Arg Asn His 325 330 335

His Val His Leu Tyr Pro Trp Ser Ser Leu Asp Gly Ala Glu Gly Ser 340 345 350

Phe Asp Ile Lys Leu Pro Glu Thr Lys Gly Cys Gln Leu Met Ala Thr 355 360 365

Ala Thr Leu Lys Arg Asn Ser Gly Thr Cys Leu Phe Val Ala Val Lys 370 375 380

Arg 385

<210> 5913

<211> 39

<212> PRT

<213> Homo sapiens

<400> 5913

Thr Gln Ser Lys Trp Arg Leu Glu Val Gln Cys Gly Lys Glu Lys Gln 1 5 10 15

Val Phe Ile Glu Ser Thr Asn Ser Thr Pro Phe Ile Asp Thr Glu Asn 20 25 30

Val Glu Asn Pro Lys Phe Asp 35

<210> 5914

<211> 321

<212> PRT

<213> Homo sapiens

<400> 5914

Glu Arg Thr Leu Gly Gln Pro Gly Phe Leu Gly Cys Pro Arg Gln Pro 1 5 10 15

His Thr Ala Met His Tyr Pro Thr Ala Leu Leu Phe Leu Ile Leu Ala 20 25 30

Asn Gly Ala Gln Ala Phe Arg Ile Cys Ala Phe Asn Ala Gln Arg Leu 35 40 45

Thr Leu Ala Lys Val Ala Arg Glu Gln Val Met Asp Thr Leu Val Arg

	50					55					60				
Ile 65	Leu	Ala	Arg	Cys	Asp 70	Ile	Met	Val	Leu	Gln 75	Glu	Val	Val	Asp	Ser 80
Ser	Gly	Ser	Ala	Ile 85	Pro	Leu	Leu	Leu	Arg 90	Glu	Leu	Asn	Arg	Phe 95	Asp
Gly	Ser	Gly	Pro 100	Tyr	Ser	Thr	Leu	Ser 105	Ser	Pro	Gln	Leu	Gly 110	Arg	Ser
Thr	Tyr	Met 115	Glu	Thr	Tyr	Val	Туг 120	Phe	Tyr	Arg	Ser	His 125	Lys	Thr	Gln
Val	Leu 130	Ser	Ser	Tyr	Val	Tyr 135	Asn	Asp	Glu	Asp	Asp 140	Val	Phe	Ala	Arg
Glu 145	Pro	Phe	Val	Ala	Gln 150	Phe	Ser	Leu	Pro	Ser 155	Asn	Val	Leu	Pro	Ser 160
Leu	Val	Leu	Val	Pro 165	Leu	His	Thr	Thr	Pro 170	Lys	Ala	Val	Glu	Lys 175	Glu
Leu	Asn	Ala	Leu 180	Tyr	Asp	Val	Phe	Leu 185	Glu	Val	Ser	Gln	His 190	Trp	Gln
Ser	Lys	Asp 195	Val	Ile	Leu	Leu	Gly 200	Asp	Phe	Asn	Ala	Asp 205	Cys	Ala	Ser
Leu	Thr 210	Lys	Lys	Arg	Leu	Asp 215	Lys	Leu	Glu	Leu	Arg 220	Thr	Glu	Pro	Gly
Phe 225	His	Trp	Val	Ile	Ala 230	Asp	Gly	Glu	Asp	Thr 235	Thr	Val	Arg	Ala	Ser 240
Thr	His	Cys	Thr	Туг 245	Asp	Arg	Val	Val	Leu 250	His	Gly	Glu	Arg	Cys 255	Arg
Ser	Leu	Leu	His 260	Thr	Ala	Ala	Ala	Phe 265	_	Phe	Pro	Thr	Ser 270		Gln
Leu	Thr	Glu 275	Glu	Glu	Ala	Leu	Asn 280		Ser	Asp	His	Туг 285		Val	Glu
Val	Glu 290	Leu	Lys	Leu	Ser	Gln 295		His	Ser	Val	Gln 300		Leu	Ser	Leu
Thr 305	Val	Leu	Leu	Leu	Leu 310		Leu	Leu	Ser	Pro 315		Leu	Cys	Pro	Ala 320
Ala															

<210> 5915 <211> 38

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<212> PRT
<213> Homo sapiens
<400> 5915
Phe Ser Cys Leu Ser Leu Pro Ser Ser Trp Glu Asn Arg Pro Val Pro
                  5
                                     10
                                                          15
Pro His Arg Ser Ser Phe Cys Ile Phe Ser Arg Asp Gly Val Ser Pro
             20
                                 25
Cys Trp Pro Gly Trp Ser
         35
<210> 5916
<211> 359
<212> PRT
<213> Homo sapiens
<400> 5916
Ile Asn Leu Glu Glu Val Gly Thr Ile Cys Leu Gly Phe Phe Lys Ser
                                     10
Ser Thr Asn Leu Ser Glu Phe Val Met Arg Lys Ile Gly Asp Leu Ala
                                 25
Cys Ala Asn Ile Gln His Leu Ser Ser Arg Ser Leu Val Asn Ile Val
         35
                             40
Lys Met Phe Arg Phe Thr His Val Asp His Ile Asn Phe Met Lys Gln
Ile Gly Glu Ile Ala Pro Gln Arg Ile Pro Ser Leu Gly Val Gln Gly
Val Met His Leu Thr Leu Tyr Cys Ser Ala Leu Arg Phe Leu Asn Glu
                 85
                                     90
Gly Val Met Asn Ala Val Ala Ala Ser Leu Pro Pro Arg Val Ala His
            100
                                105
Cys Arg Ser Lys Asp Val Ala Lys Ile Leu Trp Ser Phe Gly Thr Leu
        115
                            120
```

5201

Asn Tyr Lys Pro Pro Asn Ala Glu Glu Phe Tyr Ser Ser Leu Ile Ser 130 135 140

Glu Ile His Arg Lys Met Pro Glu Phe Asn Gln Tyr Pro Glu His Leu 145 150 155 160

Pro Thr Cys Leu Leu Gly Leu Ala Phe Leu Glu Tyr Phe Pro Val Glu 165 170 175

Leu Ile Asp Phe Ala Leu Ser Pro Gly Phe Val Arg Leu Ala Gln Glu 180 185 190

Arg Thr Lys Phe Asp Leu Leu Lys Glu Leu Tyr Thr Leu Asp Gly Thr
195 200 205

Val Gly Ile Glu Cys Pro Asp Tyr Arg Gly Asn Arg Leu Ser Thr His 210 215 220

Leu Gln Gln Glu Gly Ser Glu Leu Leu Trp Tyr Leu Ala Glu Lys Asp 225 230 235 240

Met Asn Ser Lys Pro Glu Phe Leu Glu Thr Val Phe Leu Leu Glu Thr 245 250 255

Met Leu Gly Gly Pro Gln Tyr Val Lys His His Met Ile Leu Pro His 260 265 270

Thr Arg Ser Ser Asp Leu Glu Val Gln Leu Asp Val Asn Leu Lys Pro 275 280 285

Leu Pro Phe Asn Arg Glu Ala Thr Pro Ala Glu Asn Val Ala Lys Leu 290 295 300

Arg Leu Glu His Val Gly Val Ser Leu Thr Asp Asp Leu Met Asn Lys 305 310 315 320

Leu Leu Lys Gly Lys Ala Arg Gly His Phe Gln Gly Lys Thr Glu Ser 325 330 335

Glu Pro Gly Gln Gln Pro Trp Ser Trp Arg Ile Arg Gln Leu Tyr Leu 340 345 350

Trp Gly Ala Ser Phe Ala Met 355

<210> 5917

<211> 82

<212> PRT

<213> Homo sapiens

5202

<400> 5917 Phe Gly Leu Phe Cys Thr Leu Tyr Lys Trp Thr His Ile Met Phe Ile 10 Phe Trp Val Cys Leu Leu Ser Phe Asn Ile Arg Phe Val Gly Ser Ser 20 Leu Leu Cys Val Val Leu Ser Cys Ser Leu Tyr Ser Val Pro Lys Tyr 35 40 Ser Ile Leu Gln Phe Thr His Ser Thr Leu Asp Ser Lys Cys Phe His 55 60 Ile Trp Ala Ile Thr Asn Ser Ala Ala Val Asn Ile His Ile His Ile Phe Trp <210> 5918 <211> 111 <212> PRT <213> Homo sapiens <400> 5918 Ala Phe Leu Pro Ala Gly Pro Ser Gly Phe Pro Ser Gly Pro Gly Cys 5 Val Trp Lys Cys His Leu Gly Ala Arg Ala Trp Met Ser Ala Ser Gly 20 25 Leu Cys Leu Ala Pro Tyr Pro Thr Val Ala Glu Leu Val Tyr Lys Leu . 40 Gln Asp Ser Leu Leu Tyr Ser Ser Ser Ser Pro Val Ala Glu Arg 55 Arg Asn Leu Ser Gln Ser Cys Glu Leu Tyr Cys Leu Gly Leu Gly Glu 65 70 75 Gly Trp His Lys His Ser Leu Ser His Pro Gly Trp Cys Leu Thr Asn 85 90

Leu Cys Ala Pro Gln Val His Trp Leu Gln Gly Gln Arg Ser Thr

<210> 5919 <211> 441 <212> PRT <213> Homo sapiens															
<400> 5919 Arg Arg Arg Ala Cys Arg Ser Ala Glu Gly Thr Gly Leu Arg Ser															
1	ALG	ALG	arg	5	СуБ	мg	Ser	ALG	10	Oly	1111	Oly	Deu	15	DCI
Leu	Leu	Leu	Pro 20	Pro	Arg	Leu	Gln	Leu 25	Pro	Ala	Gly	Pro	Phe 30	Ser	Arg
Cys	Arg	Trp 35	Asp	Pro	Val	Ser	Ser 40	Pro	Arg	Pro	Ser	Thr 45	Met	Pro	Pro
Lys	Lys 50	Gly	Gly	Asp	Gly	11e 55	Lys	Pro	Pro	Pro	Ile 60	Ile	Gly	Arg	Phe
Gly 65	Thr	Ser	Leu	Lys	11e 70	Gly	Ile	Val	Gly	Leu 75	Pro	Asn	Val	Gly	Lys 80
Ser	Thr	Phe	Phe	Asn 85	Val	Leu	Thr	Asn	Ser 90	Gln	Ala	Ser	Ala	Glu 95	Asn
Phe	Pro	Phe	Cys 100	Thr	Ile	Asp	Pro	Asn 105	Glu	Ser	Arg	Val	Pro 110	Val	Pro
Asp	Glu	Arg 115	Phe	Asp	Phe	Leu	Cys 120	Gln	Tyr	His	Lys	Pro 125	Ala	Ser	Lys
Ile	Pro 130	Ala	Phe	Leu	Asn	Val 135	Val	Asp	Ile	Ala	Gly 140	Leu	Val	Lys	Gly
Ala 145	His	Asn	Gly	Gln	Gly 150	Leu	Gly	Asn	Ala	Phe 155	Leu	Ser	His	Ile	Ser 160
Ala	Суѕ	Asp	Gly	Ile 165	Phe	His	Leu	Thr	Arg 170	Ala	Phe	Glu	Asp	Asp 175	Asp
Ile	Thr	His	Val 180	Glu	Gly	Ser	Val	Asp 185	Pro	Ile	Arg	Asp	Ile 190	Glu	Ile
Ile	His	Glu 195	Glu	Leu	Gln	Leu	Lys 200		Glu	Glu	Met	Ile 205	Gly	Pro	Ile
Ile	Asp 210	Lys	Leu	Glu	Lys	Val 215	Ala	Val	Arg	Gly	Gly 220	Asp	Lys	Lys	Leu
Lys 225	Pro	Glu	Tyr	Asp	Ile 230	Met	Cys	Lys	Val	Lys 235	Ser	Trp	Val	Ile	Asp 240

5204

Gln Lys Lys Pro Val Arg Phe Tyr His Asp Trp Asn Asp Lys Glu Ile 245 250 Glu Val Leu Asn Lys His Leu Phe Leu Thr Ser Lys Pro Met Val Tyr 260 265 270 Leu Val Asn Leu Ser Glu Lys Asp Tyr Ile Arg Lys Lys Asn Lys Trp 275 280 Leu Ile Lys Ile Lys Glu Trp Val Asp Lys Tyr Asp Pro Gly Ala Leu 295 300 Val Ile Pro Phe Ser Gly Ala Leu Glu Leu Lys Leu Gln Glu Leu Ser 305 310 315 320 Ala Glu Glu Arg Gln Lys Tyr Leu Glu Ala Asn Met Thr Gln Ser Ala 325 330 Leu Pro Lys Ile Ile Lys Ala Gly Phe Ala Ala Leu Gln Leu Glu Tyr 340 345 Phe Phe Thr Ala Gly Pro Asp Glu Val Arg Ala Trp Thr Ile Arg Lys 360 Gly Thr Lys Ala Pro Gln Ala Ala Gly Lys Ile His Thr Asp Phe Glu 370 375 Lys Gly Phe Ile Met Ala Glu Val Met Lys Tyr Glu Asp Phe Lys Glu 385 390 395 Glu Gly Ser Glu Asn Ala Val Lys Ala Ala Gly Lys Tyr Arg Gln Gln 405 410 Gly Arg Asn Tyr Ile Val Glu Asp Gly Asp Ile Ile Phe Phe Lys Phe 420 425 430 Asn Thr Pro Gln Gln Pro Lys Lys

<210> 5920

<211> 275

<212> PRT

<213> Homo sapiens

435

<400> 5920

Gly Val Ala Leu Phe Lys Ser Ala Ala Gly Asp Gln Pro Thr Ala Ala 1 5 10 15

Cys Ile Cys Ile Gln Arg Gln Val Pro Pro Val Pro Ala Ala Arg Ala

			20					25					30		
Pro	Gln	Ser 35	Arg	Thr	Arg	Ser	Ala 40	Gln	Ala	Lys	Leu	Ala 45	Leu	Thr	Met
Pro	Val 50	Lys	Gly	Gly	Thr	Lys 55	Cys	Ile	Lys	Tyr	Leu 60	Leu	Phe	Gly	Phe
Asn 65	Phe	Ile	Phe	Trp	Leu 70	Ala	Gly	Ile	Ala	Val 75	Leu	Ala	Ile	Gly	Leu 80
Trp	Leu	Arg	Phe	Asp 85	Ser	Gln	Thr	Lys	Ser 90	Ile	Phe	Glu	Gln	Glu 95	Thr
Asn	Asn	Asn	Asn 100	Ser	Ser	Phe	Tyr	Thr 105	Gly	Val	Tyr	Ile	Leu 110	Ile	Gly
Ala	Gly	Ala 115	Leu	Met	Met	Leu	Val 120	Gly	Phe	Leu	Gly	Cys 125	Cys	Gly	Ala
Val	Gln 130	Glu	Ser	Gln	Cys	Met 135	Leu	Gly	Leu	Phe	Phe 140	Gly	Phe	Leu	Leu
Val 145	Ile	Phe	Ala	Ile	Glu 150	Ile	Ala	Ala	Ala	Ile 155	Trp	Gly	Tyr	Ser	His 160
Lys	Asp	Glu	Val	Ile 165	Lys	Glu	Val	Gln	Glu 170	Phe	Туr	Lys	Asp	Thr 175	Tyr
Asn	Lys	Leu	Lys 180	Thr	Lys	Asp	Glu	Pro 185	Gln	Arg	Glu	Thr	Leu 190	Lys	Ala
Ile	His	Туr 195	Ala	Leu	Asn	Суѕ	Cys 200	Gly	Leu	Ala	Gly	Gly 205	Val	Glu	Glr
Phe	Ile 210	Ser	Asp	Ile	Cys	Pro 215		Lys	Asp	Val	Leu 220	Glu	Thr	Phe	Thr
Val 225		Ser	Cys	Pro	Asp 230		Ile	Lys	Glu	Val 235		Asp	Asn	Lys	Phe 240
His	Ile	Ile	Gly	Ala 245		Gly	Ile	Gly	Ile 250		Val	Val	Met	Ile 255	
Gly	Met	Ile	Phe 260		Met	Ile	Leu	Cys 265		Ala	Ile	Arg	Arg 270		Arg
Glu	Met	Val 275													

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<210> 5921
<211> 115
<212> PRT
<213> Homo sapiens
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Val Gly Cys Arg Pro Leu Ser Ser Cys His Leu Leu Ala Val Ala Arg
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                                   10
Ser Tyr Phe Ser Leu Ser Gly Val Ile Cys Ile Trp Arg Phe His Cys
             20
                                 25
Cys Phe Ser Leu Ser Tyr Leu Glu Trp Asn Pro Glu Ser Cys Pro Phe
Pro Pro Thr Cys Ser Tyr Leu Lys Ala Pro Glu Thr Tyr Trp Val Pro
Asp Ser Cys Phe Val Cys Ile Arg Arg Val Val Ala Cys His Leu Ala
                     70
65
                                         75
Cys Phe Leu Asn Asn Pro Thr Ser Cys Pro Pro Cys Thr Tyr Ile Ala
                                     90
Thr Ala Leu Ile Trp Ala Phe Phe Leu Gly Gln Cys Leu Cys Pro
                                105
Asn Ser Glu
        115
<210> 5922
<211> 291
<212> PRT
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<220>
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<222> (60)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
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<222> (217)
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<400> 5922
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                  5
                                     10
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Leu	Asp	Pro	Val 20	Val ;	Val	Thr	Phe	Trp 25	Tyr	Arg	Ala	Pro	Glu 30	Leu	Leu
Leu	Gly	Ala 35	Arg	His	Tyr	Thr	Lys 40	Ala	Ile	Asp	Ile	Trp 45	Ala	Ile	Gly
Суз	Ile 50	Phe	Ala	Glu	Leu	Leu 55	Thr	Ser	Glu	Pro	Xaa 60	Phe	His	Cys	Arg
Gln 65	Glụ	Asp	Ile	Lys	Thr 70	Ser	Asn	Pro	Tyr	His 75	His	Asp	Gln	Leu	Asp 80
Arg	Ile	Phe	Asn	Val 85	Met	Gly	Phe	Pro	Ala 90	Asp	Lys	Asp	Trp	Glu 95	Asp
Ile	Lys	Lys	Met 100	Pro	Glu	His	Ser	Thr 105	Leu	Met	Lys	Asp	Phe 110	Arg	Arg
Asn	Thr	Tyr 115	Thr	Asn	Cys	Ser	Leu 120	Ile	Lys	Tyr	Met	Glu 125	Lys	His	Lys
Val	Lys 130	Pro	Asp	Ser	Lys	Ala 135	Phe	His	Leu	Leu	Gln 140	Lys	Leu	Leu	Thr
Met 145	Asp	Pro	Ile	Lys	Arg 150	Ile	Thr	Ser	Glu	Gln 155	Ala	Met	Gln	Asp	Pro 160
Tyr	Phe	Leu	Glu	Asp 165	Pro	Leu	Pro	Thr	Ser 170	Asp	Val	Phe	Ala	Gly 175	Cys
Gln	Ile	Pro	Туг 180	Pro	Lys	Arg.	Glu	Phe 185	Leu	Thr	Glu	Glu	Glu 190	Pro	Asp
Asp	Lys	Gly 195	Asp	Lys	Lys	Asn	Gln 200	Gln	Gln	Gln	Gln	Gly 205	Asn	Asn	His
Thr	Asn 210	Gly	Thr	Gly	His	Pro 215	Gly	Xaa	Gln	Asp	Ser 220		His	Thr	Gln
Gly 225		Pro	Leu	Lys	Lys 230	Val	Arg	Val	Val	Pro 235		Thr	Thr	Thr	Ser 240
Gly	Gly	Leu	Ile	Met 245		Ser	Asp	Tyr	Gln 250		Ser	Asn	Pro	His 255	
Ala	Tyr	Pro	Asn 260		Gly	Pro	Ser	Thr 265		Gln	Pro	Gln	Ser 270		Met
Gly	Tyr	Ser 275		Thr	Ser	Gln	Gln 280		Pro	Gln	Tyr	Ser 285		Gln	Thr

His Arg Tyr

5208

290 <210> 5923 <211> 100 <212> PRT <213> Homo sapiens <400> 5923 Arg Pro Pro Ser Arg Trp Ser Trp Trp Gln Gly Lys Pro Thr Gly Gly 5 Val Cys Val Ala Ala Ala Arg Ser Ser Pro Ser Val Thr Ala Pro Thr 25 Ser Ser Asn Ala Leu Ala Tyr Leu His Ser Ser Ser Arg Pro Lys Arg 40 Pro Ala Trp Trp His Ser Val Pro Ala Arg Pro Leu Arg Gly Pro Arg Thr Ala Met Ala Pro Thr Gly Val Ser Ala Cys Arg Arg Gln Lys Trp 65 70 Ala Pro His Ser Glu Gly Ala Ala Ala Val Gln Pro Gln Val Ala Leu 95 Ala Pro Gly Leu 100 <210> 5924 <211> 241 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (13) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (17) <223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE <222> (19) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE															
<222	> (4	14)	1 -			.						T	nino	2016	
<223	3> Xa	ıa eç	mais	any	/ OI	tne	nati	irali	ry oc	curi	ing	r-ai	IIIIO	acic	ıs
)> 59 Ara		Glv	Pro	Leu	Thr	Ser	Gln	Glv	Met	Asn	Xaa	Ser	Ara	Gln
1	9		013	5					10					15	
Xaa	Pro	Xaa	Leu 20	Asn	Leu	Leu	Pro	Ser 25	Ser	Ala	His	Phe	Arg 30	Pro	Ser
Thr	Tyr	Lys 35	Lys	Ser	Ser	Gly	Pro 40	Leu	Lys	Ala	Xaa	Lys 45	Leu	Ile	Ile
His	Trp 50	Asn	Сув	Trp	Glu	Asp 55	Ser	Leu	Ser	Gly	Ile 60	Ala	Met	Asn	Val
Pro 65	Ala	Ser	Arg	Gly	Ser 70	Asn	Leu	Asn	Ser	Ser 75	Gly	Ala	Asn	Arg	Thr 80
Ser	Leu	Ser	Gly	Gly 85	Thr	Gly	Ser	Gly	Thr 90	Gln	Gly	Ala	Thr	Lys 95	Pro
Leu	Ser	Thr	Pro 100	His	Arg	Pro	Ser	Thr 105	Ala	Ser	Gly	Ser	Ser 110	Val	Val
Thr	Ala	Ser 115	Val	Gln	Lys	Leu	Ile 120	His	Thr	Glu	Asp	Pro 125	Phe	Asn	Asp
Glu	His 130	Gln	Glu	Arg	Gln	Glu 135	Val	Glu	Met	Leu	Ala 140	Lys	Lys	Phe	Glu
Met 145	Lys	Tyr	Tyr ,	Asp	Glu 150		Val	Pro	Ala	Ser 155	Leu	Thr	Thr	Lys	Туг 160
Gly	Gly	Phe	Tyr	Ile 165	Asn	Thr	Gly	Thr	Leu 170	Gln	Phe	Arg	Gln	Ala 175	
Asp	Thr	Glu	Glu 180	Asp	Asp	Ile	Thr	Asp 185		Gln	Lys	His	Lys 190		Pro
Lys	Val	Pro 195		Ile	Lys	Glu	Asp 200		Ile	Glu	Met	Lys 205		Arg	Lys
Arg	Lys 210		Glu	Gly	Glu	Lys 215		Lys	Lys	Pro	Arg 220		Lys	Val	Pro

Lys Gln Leu Gly Val Val Ala Leu Asn Ser His Lys Ser Glu Lys Lys 225 230 235 240

Lys

<210> 5925

<211> 330

<212> PRT

<213> Homo sapiens

<400> 5925

Ala Gly Ser Arg Cys Pro Ala Trp Arg Ala Arg Ser Ala Cys Arg Trp

1 5 10 15

Pro Leu Ala Arg Cys Ser Ser Pro Gly Cys Asp Ser Gly Phe Gly Lys
20 25 30

Glu Thr Ala Lys Lys Leu Asp Ser Met Gly Phe Thr Val Leu Ala Thr 35 40 45

Val Leu Glu Leu Asn Ser Pro Gly Ala Ile Glu Leu Arg Thr Cys Cys 50 55 60

Ser Pro Arg Leu Arg Leu Leu Gln Met Asp Leu Thr Lys Pro Gly Asp 65 70 75 80

Ile Ser Arg Val Leu Glu Phe Thr Lys Ala His Thr Thr Ser Thr Gly 85 90 95

Leu Trp Gly Leu Val Asn Asn Ala Gly His Asn Glu Val Val Ala Asp 100 105 110

Ala Glu Leu Ser Pro Val Ala Thr Phe Arg Ser Cys Met Glu Val Asn 115 120 125

Phe Phe Gly Ala Leu Glu Leu Thr Lys Gly Leu Leu Pro Leu Leu Arg 130 135 140

Ser Ser Arg Gly Arg Ile Val Thr Val Gly Ser Pro Ala Gly Asp Met 145 150 155 160

Pro Tyr Pro Cys Leu Gly Ala Tyr Gly Thr Ser Lys Ala Ala Val Ala 165 170 175

Leu Leu Met Asp Thr Phe Ser Cys Glu Leu Leu Pro Trp Gly Val Lys
180 185 190

5211

Val Ser Ile Ile Gln Pro Gly Cys Phe Lys Thr Glu Ser Val Arg Asn 200 Val Gly Gln Trp Glu Lys Arg Lys Gln Leu Leu Ala Asn Leu Pro 215 Gln Glu Leu Leu Gln Ala Tyr Gly Lys Asp Tyr Ile Glu His Leu His 230 235 225 Gly Gln Phe Leu His Ser Leu Arg Leu Ala Met Ser Asp Leu Thr Pro 250 245 Val Val Asp Ala Ile Thr Asp Ala Leu Leu Ala Ala Arg Pro Arg Arg 265 Arg Tyr Tyr Pro Gly Gln Gly Leu Gly Leu Met Tyr Phe Ile His Tyr 275 Tyr Leu Pro Glu Gly Leu Arg Ala Ala Ser Cys Arg Pro Ser Ser Ser 300 290 295 Val Thr Val Cys Leu Glu His Cys Ser Leu Ala Ser Leu Ala Leu Pro 315 310 His His Arg Thr Gln Pro Arg Thr Gln Thr 325 <210> 5926 <211> 88 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (2) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (56) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (82)

<223> Xaa equals any of the naturally occurring L-amino acids

Cys Xaa His Met Val Ile Met Cys Asp Trp Ile Met Lys Ile Ile Val

<400> 5926

5212

1 5 15 10 Val Cys Val Gly Thr Arg Asp Cys Pro Val Ser Arg Thr Pro Ala His 25 Tyr Leu Ser Ile Leu Gln Pro Phe Ile Trp Lys Leu Pro Thr Ser Leu 40 Cys Cys Val Cys Leu His Met Xaa Gly Phe Ala Val Leu Ala Leu Thr 50 55 60 Ala His Arg Glu Cys Arg Pro His Pro Asn Pro His Gln Leu Pro Leu 75 Glu Xaa Gln Asn Leu Gly Trp Gly 85 <210> 5927 <211> 40 <212> PRT <213> Homo sapiens <400> 5927 Arg Tyr His Ile Leu Ser Gly Ile Ser Pro Pro Ala Leu Trp Leu Leu 10 Val Glu Arg Leu Phe Gly Tyr Gly Leu Ala Val Glu Lys Ile Gln Val 25 Ile Leu Leu Asn Asp Phe Thr Phe 35 <210> 5928 <211> 113 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (96) <223> Xaa equals any of the naturally occurring L-amino acids <400> 5928 Thr Phe Pro Asn Gly Ala Phe Ala Leu Ile Ser Lys Leu Thr Ala Arg 5 10

Asp Ala Phe Leu Tyr Phe Asp Cys Phe Thr Val Glu Gly Gln Ile Pro

5213 20 25 30 Arg Leu Ser Lys Val Asn Leu Phe Thr Leu Leu Ser Leu Trp Met Glu 40 Leu Phe Pro Ala Glu Ala Gln Arg Gln Lys Ser Gln Lys Asn Glu Glu 60 55 Gly Lys His Gly Pro Leu Gly Asp Asn Glu Glu Arg Thr Arg Val Ser Thr Asp Lys Arg Gln Lys Thr Met Phe Cys Leu Phe Glu Asn Asp Xaa 90 Lys Cys Lys Ala Leu Thr Val Met Ile Arg Ser Met Ser Arg Ser Val 110 105 100 Pro <210> 5929 <211> 52 <212> PRT <213> Homo sapiens <400> 5929 Cys Ile Gly Pro Lys Cys Lys Leu His Trp Ser Asp Leu Glu Ala Phe Met Leu Thr Ser Phe Gly Lys Val Lys Asn Asn Lys Ile Ile Leu Asp 25 Phe Ile Leu Tyr Ile Lys Ile Tyr Leu Leu Arg Lys Gln Ser Val Tyr 35 40 Tyr Leu Leu Val 50 <210> 5930 <211> 89 <212> PRT <213> Homo sapiens

Ala Glu Glu Glu His Gly Lys Arg Lys Lys Gly Lys Gly Leu

5214

Gly Lys Lys Arg Asp Pro Cys Leu Arg Lys Tyr Lys Asp Phe Cys Ile
20 25 30

His Gly Glu Cys Lys Tyr Val Lys Glu Leu Arg Ala Pro Ser Cys Ile 35 40 45

Cys His Pro Gly Tyr His Gly Glu Arg Cys His Gly Leu Ser Leu Pro 50 55 60

Val Glu Asn Arg Leu Tyr Thr Tyr Asp His Thr Thr Ile Leu Ala Val 65 70 75 80

Val Ala Val Val Leu Asp Leu Met Ser 85

<210> 5931

<211> 85

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5931

Glu Ser Pro Thr Ile Val Lys Ala Gly Thr Pro Ala Gly Thr Gly Pro
1 5 10 15

Glu Phe Pro Gly Arg Pro Thr Arg Pro Pro Thr Arg Pro Gly Leu Leu $20 \hspace{1cm} 25 \hspace{1cm} 30$

Glu Pro Trp Thr Ser Lys Gly Val Glu Ile Ala Ala Ala Pro His Tyr 35 40 45

Lys His Leu Gly Leu Glu Ala Thr Glu Tyr His Phe Leu His Ile Leu
50 55 60

Leu Xaa Lys Ala Gly Gly Glu Pro Ala Leu Thr Lys Arg Val Gly Asp 65 70 75 80

Gln Thr Phe Thr Ser

85

<210> 5932

<211> 155

<212> PRT

<213> Homo sapiens

<220>

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<221> SITE
<222> (21)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5932
Glu Trp Thr Glu Gly Gln Thr Val Gln Gly Arg Glu Asp His Trp Gly
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                                     10
                                                         15
Arg Glu Val Thr Xaa Arg Glu Val Ser Val Gly Arg Gly Glu Thr Lys
                                 25
             20
Glu Lys Ile Glu Glu Gln Lys Ala Leu Ala Leu Gln Leu Gln Asn Gln
                             40
Arg Leu Gln Glu Arg Glu His Ser Val His Asp Ser Val Glu Leu His
                         55
Leu Arg Val Pro Leu Glu Lys Glu Ile Pro Val Thr Val Val Gln Glu
                     70
Thr Gln Lys Lys Gly His Lys Leu Thr Asp Ser Glu Asp Glu Phe Pro
                 85
Glu Ile Thr Glu Glu Met Glu Lys Glu Ile Lys Asn Val Phe Arg Asn
                                105
Gly Asn Gln Asp Glu Val Leu Ser Glu Ala Phe Arg Leu Thr Ile Thr
        115
                            120
Arg Lys Asp Ile Gln Thr Leu Asn His Leu Asn Trp Leu Asn Asp Glu
                                            140
                        135
Ile Ile Asn Phe Tyr Met Asn Met Leu Met Gly
                    150
145
<210> 5933
<211> 150
<212> PRT
<213> Homo sapiens
<400> 5933
Gly Thr Thr Thr Arg Asp Phe Thr Gln Leu Asn Glu Leu Gln Cys Arg
                                      10
Phe Pro Arg Arg Leu Val Val Leu Gly Phe Pro Cys Asn Gln Phe Gly
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His Gln Glu Asn Cys Gln Asn Glu Glu Ile Leu Asn Ser Leu Lys Tyr 35 40 45

Val Arg Pro Gly Gly Gly Tyr Gln Pro Thr Phe Thr Leu Val Gln Lys
50 55 60

Cys Glu Val Asn Gly Gln Asn Glu His Pro Val Phe Ala Tyr Leu Lys 65 70 75 80

Asp Lys Leu Pro Tyr Pro Tyr Asp Asp Pro Phe Ser Leu Met Thr Asp 85 90 95

Pro Lys Leu Ile Ile Trp Ser Pro Val Arg Arg Ser Asp Val Ala Trp
100 105 110

Asn Phe Glu Lys Phe Leu Ile Gly Pro Glu Gly Glu Pro Phe Arg Arg 115 120 125

Tyr Ser Arg Thr Phe Pro Thr Ile Asn Ile Glu Pro Asp Ile Lys Arg 130 135 140

Leu Leu Lys Val Ala Ile 145 150

<210> 5934

<211> 67

<212> PRT

<213> Homo sapiens

<400> 5934

His Ile Arg Thr Gly Glu Arg Glu Arg Gly Leu Phe Phe Cys Ser 1 5 10 15

Ile Phe Gln Ser His Ile Arg Val Ile Leu Asn Cys Asn Lys Asp Gln 20 25 30

Leu Leu Lys Ile Ser Leu Leu Lys Ile Gln Asn Asp Leu Ser Ile Leu 35 40 45

Lys Ile Ile Tyr Leu Pro Cys Ser Cys Leu Leu Thr Leu Ala Ile Ser 50 55 60

Trp Arg Gly 65

<210> 5935

5217

<211> 107 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (25) <223> Xaa equals any of the naturally occurring L-amino acids <400> 5935 Ile Leu Gly Asp Thr Ile Glu Gly Thr Pro Ala Gly Thr Gly Pro Glu 10 Phe Pro Gly Arg Pro Thr Arg Pro Xaa Thr Val Arg Leu Ser Ala Ile 20 Asp Gly Ala Leu Leu Trp Cys Leu Leu Glu Val Tyr Cys His Tyr Arg 40 Glu Pro Cys Leu Leu Ala Ser Leu Asp Leu Tyr Ser Lys Gln Ser Val 55 Ser Asp Asp Lys Phe Cys Arg Arg Val Tyr Ser Glu Pro Leu Thr Ser 75 80 70 Cys Lys Gly Lys Met Gly Gly Leu Pro Glu Ile Pro Leu Lys Gln Gly 90 85 Gly Leu Trp Gly Gly Arg Leu Gly Tyr Leu Ser 100 <210> 5936 <211> 125 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (21) <223> Xaa equals any of the naturally occurring L-amino acids <400> 5936 Arg Ala Leu Trp Phe Phe Ser Ser Arg Gly His Asp Ala Ser Gln Ile 10 Thr Leu Ala Leu Xaa Thr Ala Ala Ser Tyr Pro Arg Ala Cys Gln Ala 25

Leu Gly Ala Met Leu Ser Lys Gly Ala Leu Asn Pro Ala Asp Ile Thr

5218

35 40 45 Val Leu Phe Lys Met Phe Thr Ser Met Asp Pro Pro Pro Val Glu Leu 55 60 Glu Val Ala Ser Gln Glu Ser Pro Met Ser Ala Gly Lys Val Thr Leu 70 75 Glu Ser Leu Cys Leu Ser Asp Cys Leu Lys Ala Val Asn Ala Asn Pro 90 95 -Ser Leu Ser Trp Ser Phe Leu Ser His Thr Leu Cys Leu Glu Pro Val 100 105 Gly Pro Leu Cys Arg Asp Thr Leu Arg Gly Gly Gly 120 <210> 5937 <211> 223 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (35) <223> Xaa equals any of the naturally occurring L-amino acids <400> 5937 Arg His Cys Leu Pro Pro Thr Pro Pro Gln Gly Cys Gly Leu Pro Ala 10 Leu Gly Gln Ala Met Leu Thr Leu His Gly Gly His Ser Ser Arg 20 Glu Ala Xaa Lys Val Val Asn Ser Ile Leu Ala Phe Arg Glu Lys Glu 35 40 Trp Gln Arg Leu Gln Ser Asn Pro His Leu Lys Glu Gly Ser Val Thr Ser Val Asn Leu Thr Lys Leu Glu Gly Gly Val Ala Tyr Asn Val Ile 70 75 Pro Ala Thr Met Ser Ala Ser Phe Asp Phe Arg Val Ala Pro Asp Val 85 90 95

Asp Phe Lys Ala Phe Glu Glu Gln Leu Gln Ser Trp Cys Gln Ala Ala

105

110

5219

Gly Glu Gly Val Thr Leu Glu Phe Ala Gln Lys Trp Met His Pro Gln 115 120 125

Val Thr Pro Thr Asp Asp Ser Asn Pro Trp Trp Ala Ala Phe Ser Arg 130 135 140

Val Cys Lys Asp Met Asn Leu Thr Leu Glu Pro Glu Ile Met Pro Ala 145 150 155 160

Ala Thr Asp Asn Arg Tyr Ile Arg Ala Val Gly Val Pro Ala Leu Gly
165 170 175

Phe Ser Pro Met Asn Arg Thr Pro Val Leu Leu His Asp His Asp Glu 180 185 190

Arg Leu His Glu Ala Val Phe Leu Arg Gly Val Asp Ile Tyr Thr Arg 195 200 205

Leu Leu Pro Ala Leu Ala Ser Val Pro Ala Leu Pro Ser Asp Ser 210 215 220

<210> 5938

<211> 86

<212> PRT

<213> Homo sapiens

<400> 5938

Ala Leu Cys Pro Pro Arg Gly Thr Ala Ser Gly Pro Arg His Thr Leu 1 5 10 15

Trp Leu Asn Gln Gly Leu Gln Gly Pro Cys Gly Pro Ala Gln Ala Leu 20 25 30

Met Gly Arg His Val Arg Ser Trp Arg Thr Gln Ala Pro Phe Leu Ser 35 40 45

Gly Val Val Phe Phe Leu Cys Pro Gly Ala Ser Pro Ser Ser Asn Gly 50 55 60

Pro Phe Ala Arg Phe Gly Val Pro Leu Ala Gly Pro Ile Arg Thr Leu 65 70 75 80

Arg Ser Asn Gln Gly Arg 85

85

<210> 5939

<211> 130

<212> PRT <213> Homo sapiens

<400> 5939

Arg Arg Asp Ala Cys Pro Ile Ser Arg Glu Pro Pro Thr Arg Pro Trp

1 5 10 15

Gly Thr Thr Ser Thr Leu Leu Leu Ser Leu Gln Ser Pro Val Pro Arg
20 25 30

Met Gly His Leu Gln Pro Leu Ala Leu Pro Gln Phe Leu His Leu Pro 35 40 45

Ala Ala Ala Pro Arg Asn Trp Ala Pro Ser Ser Arg Ala Trp Pro Ala 50 55 60

Cys Ala Pro Arg Ser Arg Pro Gly Arg Ala Ala Val Phe Leu Lys Tyr 65 70 75 80

Ala Arg Pro Gln Arg Gln Gly Thr Ser Leu Ala Ala Ala Leu Pro Ala 85 90 95

Ala Ala Ser Ser Leu Ser Leu Pro Glu Tyr Trp Asp Ser Val Thr Lys
100 105 110

Lys Ser Thr Thr Lys Asn Lys Thr Leu Pro Val Cys Val Arg Leu Ser 115 120 125

Ser Gln 130

<210> 5940

<211> 148

<212> PRT

<213> Homo sapiens

<400> 5940

Gly Arg Thr Cys Lys Lys Glu Leu Thr Arg Lys Asp Thr Ile Met Ala 1 5 10 15

His Val Thr Glu Phe His Asn Gly His Arg Tyr Phe Tyr Glu Met Asp
20 25 30

Glu Val Glu Gly Glu Thr Leu Pro Ser Ser Ser Thr Thr Leu Asp Asn 35 40 45

Leu Thr Ala Asn Lys Pro Ser Ser Ala Ile Thr Val Ile Asp His Ser 50 55 60

5221

Pro Ala Asn Ser Ser Pro Arg Gly Lys Trp Gln Cys Arg Ile Cys Glu 65 70 75 80

Asp Met Phe Asp Ser Gln Glu Tyr Val Lys Gln His Cys Met Ser Leu 85 90 95

Ala Ser His Lys Phe His Arg Tyr Ser Cys Ala His Cys Arg Lys Pro 100 105 110

Phe His Lys Ile Glu Thr Leu Tyr Arg His Cys Gln Asp Glu His Asp 115 120 125

Asn Glu Ile Lys Ile Lys Tyr Phe Cys Gly Leu Cys Asp Leu Ile Phe 130 135 140

Asn Val Glu Glu 145

<210> 5941

<211> 268

<212> PRT

<213> Homo sapiens

<400> 5941

Pro Gly Arg Pro Thr Arg Pro Arg Thr Arg Gly Ile Asn Lys Leu Ile
1 5 10 15

Arg Ile Gly Arg Asn Glu Cys Val Val Val Ile Arg Val Asp Lys Glu
20 25 30

Lys Gly Tyr Ile Asp Leu Ser Lys Arg Arg Val Ser Pro Glu Glu Ala 35 40 45

Ile Lys Cys Glu Asp Lys Phe Thr Lys Ser Lys Thr Val Tyr Ser Ile 50 55 60

Leu Arg His Val Ala Glu Val Leu Glu Tyr Thr Lys Asp Glu Gln Leu 65 70 75 80

Glu Ser Leu Phe Gln Arg Thr Ala Trp Val Phe Asp Asp Lys Tyr Lys 85 90 95

Arg Pro Gly Tyr Gly Ala Tyr Asp Ala Phe Lys His Ala Val Ser Asp 100 105 110

Pro Ser Ile Leu Asp Ser Leu Asp Leu Asn Glu Asp Glu Arg Glu Val 115 120 125

Leu Ile Asn Asn Ile Asn Arg Arg Leu Thr Pro Gln Ala Val Lys Ile

	130					135					140				
Arg 145		Asp	Ile	Gļu	Val 150	Ala	Суѕ	Туr	Gly	Туг 155		Gly	Ile	Asp	Ala 160
Val	Lys	Glu	Ala	Leu 165	Arg	Ala	Gly	Leu	Asn 170		Ser	Thr	Glu	Asn 175	Met
Pro	Ile	Lys	Ile 180		Leu	Ile	Ala	Pro 185	Pro	Arg	Tyr	Val	Met 190	Thr	Thr
Thr	Thr	Leu 195	Glu	Arg	Thr	Glu	Gly 200	Leu	Ser	Val	Leu	Ser 205	Gln	Ala	Met
Ala	Val 210		Lys	Glu	Lys	Ile 215	Glu	Glu	Lys	Arg	Gly 220	Val	Phe	Asn	Val
Gln 225	Met	Glu	Pro	Lys	Val 230	Val	Thr	Asp	Thr	Asp 235	Glu	Thr	Glu	Leu	Ala 240
Arg	Gln	Met	Glu	Arg 245	Leu	Glu	Arg	Glu	Asn 250	Ala	Glu	Val	Asp	Gly 255	Asp
Asp	Asp	Ala	Glu 260	Glu	Met	Glu	Ala	Lys 265	Ala	Glu	Asp				
	0> 59														
	1> 24 2> PI														
			sapie	ens											
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Ser 1	Arg	Glu	Ile	Asp 5	Ile	Ile	His	Val	Ile 10	Lys	Asn	Met	Gly	Phe 15	Asn
Leu	Thr	Phe	His 20	Leu	Ser	Tyr	Lys	Phe 25	Arg	Leu	Leu	Leu	Leu 30	Leu	Thr
Leu	Cys	Leu 35	Thr	Val	Val	Gly	Trp 40	Ala	Thr	Ser	Asn	Туг 45	Phe	Val	Gly
Ala	Ile 50	Gln	Glu	Ile	Pro	Lys 55	Ala	Lys	Glu	Phe	Met 60	Ala	Asn	Phe	His
Lys 65	Thr	Leu	Ile	Leu	Gly 70	Lys	Gly	Lys	Thr	Leu 75	Thr	Asn	Glu	Ala	Ser 80
Thr	Lys	Lys	Val	Glu 85	Leu	Asp	Asn	Cys	Pro 90	Ser	Val	Ser	Pro	Tyr 95	Leu

PCT/US00/26524 WO 01/22920

5223

Arg Gly Gln Ser Lys Leu Ile Phe Lys Pro Asp Leu Thr Leu Glu Glu 105 100 Val Gln Ala Glu Asn Pro Lys Val Ser Arg Gly Arg Tyr Arg Pro Gln 120 115 Glu Cys Lys Ala Leu Gln Arg Val Ala Ile Leu Val Pro His Arg Asn Arg Glu Lys His Leu Met Tyr Leu Leu Glu His Leu His Pro Phe Leu 155 150 Gln Arg Gln Gln Leu Asp Tyr Gly Ile Tyr Val Ile His Gln Ala Glu 165 170 Gly Lys Lys Phe Asn Arg Ala Lys Leu Leu Asn Val Gly Tyr Leu Glu 185

Ala Leu Lys Glu Glu Asn Trp Asp Cys Phe Ile Phe His Asp Val Thr 200

Trp Tyr Pro Arg Met Thr Leu Thr Phe Thr Ser Val Arg Ser Ile Pro 215

Ser Ile Trp Trp Leu Ala Gly Thr Ala Leu Gly Thr Gly Tyr Val Thr 235 225 230

Val Asp Ile Leu Gly Val Leu Leu Pro 245

<210> 5943

<211> 25

<212> PRT

<213> Homo sapiens

<400> 5943

Gln Ala Pro Arg Arg Pro Ser Pro Ala Ser Leu Cys Gly Pro Arg Arg

Pro Ala Ala Pro Glu Leu Leu Thr Val 20

<210> 5944

<211> 70

<212> PRT

<213> Homo sapiens

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<220>
<221> SITE
<222> (46)
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<400> 5944
Gln Gly Gly Asp Pro Trp Val Val Arg Gln Leu Trp Val Asn Phe Val
  1
                  5
                                     10
Ser Thr Leu Ser Arg Gly Lys Phe Gly Leu Ser Pro Gly Val His Thr
             20
Ala Ala Ala Thr Gln Cys Ala Thr Tyr His Phe Phe Leu Xaa Cys Phe
Val Leu Phe Leu Lys Asp His Phe Ile Leu Lys Arg Lys Ala Asp Pro
                         55
Ser Lys His Glu Ser Ile
65
<210> 5945
<211> 409
<212> PRT
<213> Homo sapiens
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<400> 5945
Pro Val Xaa Pro Arg Val Arg Arg Arg Arg Ala Lys Val Gln Gly
                  5
                                                         15
Ala Val Gly Arg Ala Arg Phe Pro Ala Arg Val Ser Ala Arg Gly
             20
Ser Ala Pro Gly Pro Gly Leu Gly Gly Ala Gly Ala Leu Asp Pro Pro
Ala Val Val Ala Glu Ser Val Ser Ser Leu Thr Ile Ala Asp Ala Phe
     50
                         55
Ile Ala Ala Gly Glu Ser Ser Ala Pro Thr Pro Pro Arg Pro Ala Leu
 65
                     70
Pro Arg Arg Phe Ile Cys Ser Phe Pro Asp Cys Ser Ala Asn Tyr Ser
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				85					90					95	
Lys	Ala	Trp	Lys 100	Leu	Asp	Ala	His	Leu 105	Cys	Lys	His	Thr	Gly 110	Glu	Arg
Pro	Phe	Val 115	Cys	Asp	Tyr	Glu	Gly 120	Cys	Gly	Lys	Ala	Phe 125	Ile	Arg	Asp
Туг	His 130	Leu	Ser	Arg	His	Ile 135	Leu	Thr	His	Thr	Gly 140	Glu	Lys	Pro	Phe
Val 145	Cys	Ala	Ala	Asn	Gly 150	Cys	Asp	Gln	Lys	Phe 155	Asn	Thr	Lys	Ser	Asn 160
Leu	Lys	Lys	His	Phe 165	Glu	Arg	Lys	His	Glu 170	Asn	Gln	Gln	Lys	Gln 175	Tyr
Ile	Суѕ	Ser	Phe 180	Glu	Asp	Cys	Lys	Lys 185	Thr	Phe	Lys	Lys	His 190	Gln	Gln
Leu	Lys	Ile 195	His	Gln	Cys	Gln	His 200	Thr	Asn	Glu	Pro	Leu 205	Phe	Lys	Cys
Thr	Gln 210	Glu	Gly	Cys	Gly	Lys 215	His	Phe	Ala	Ser	Pro 220	Ser	Lys	Leu	Lys
Arg 225	His	Ala	Lys	Ala	His 230	Glu	Gly	Tyr	Val	Суs 235	Gln	Lys	Gly	Cys	Ser 240
Phe	Val	Ala	Lys	Thr 245	Trp	Thr	Glu	Leu	Leu 250	Lys	His	Val	Arg	G1u 255	Thr
His	Lys	Glu	Glu 260	Ile	Leu	Cys	Glu	Val 265	Cys	Arg	Lys	Thr	Phe 270	Lys	Arg
Lys	Asp	Туг 275	Leu	Lys	Gln	His	Met 280	Lys	Thr	His	Ala	Pro 285	Glu	Arg	Asp
Val	Cys 290	Arg	Суѕ	Pro	Arg	Glu 295	Gly	Cys	Gly	Arg	Thr 300	Tyr	Thr	Thr	Val
Phe 305	Asn	Leu	Gln	Ser	His 310	Ile	Leu	Ser	Phe	His 315	Glu	Glu	Ser	Arg	Pro 320
Phe	Val	Cys	Glu	His 325	Ala	Gly	Cys	Gly	Lys 330		Phe	Ala	Met	Lys 335	Gln
Ser	Leu	Thr	Arg 340	His	Ala	Val	Val	His 345	_	Pro	Asp	Lys	Lys 350	-	Met
Lys	Leu	Lys	Val	Lys	Lys	Ser	Arg	Glu	Lys	Arg	Ser	Leu	Ala	Ser	His

355 360 365

Leu Ser Gly Tyr Ile Pro Pro Lys Arg Lys Gln Gly Gln Gly Leu Ser 370 375 380

Leu Cys Gln Asn Gly Glu Ser Pro Asn Cys Val Glu Asp Lys Met Leu 385 390 395 400

Ser Thr Val Ala Val Leu Thr Leu Gly 405

<210> 5946

<211> 84

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (73)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (81)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5946

Lys Arg Met Ala Ala Leu Phe Leu Lys Arg Leu Thr Leu Gln Thr Val 1 5 10 15

Lys Ser Glu Asn Ser Cys Ile Arg Cys Phe Gly Lys His Ile Leu Gln
20 25 30

Lys Thr Ala Pro Ala Gln Leu Ser Pro Ile Ala Ser Ala Pro Arg Leu 35 40 45

Ser Phe Leu Ile His Ala Lys Ala Phe Ser Thr Ala Glu Asp Thr Gln 50 55 60

Asn Glu Gly Lys Lys Thr Lys Lys Xaa Lys Thr Ala Phe Ser Asn Val 65 70 75 80

Xaa Lys Lys Asn

<210> 5947

<211> 288

<212> PRT <213> Homo sapiens													
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<400> 5947 Asp Val Ile Arg Arg Thr Val Glu Glu Arg Lys Leu Lys Leu Glu Met 1 5 10 15													
Glu Lys Gln Glu Phe Glu Gln Leu Arg Gln Glu Met Gly Glu Glu Glu 20 25 30													
Glu Glu Asn Glu Thr Phe Gly Leu Ser Arg Glu Tyr Glu Glu Leu Ile 35 40 45													
Lys Leu Lys Arg Ser Gly Ser Ile Gln Ala Lys Asn Leu Lys Ser Lys 50 55 60													
Phe Glu Lys Ile Gly Gln Leu Ser Glu Lys Glu Ile Gln Xaa Xaa Ile 65 70 75 80													
Glu Glu Glu Arg Ala Arg Arg Arg Ala Ile Asp Leu Glu Ile Lys Glu 85 90 95													
Arg Glu Ala Glu Asn Phe His Glu Glu Asp Asp Val Asp Val Arg Pro 100 105 110													
Ala Arg Lys Ser Glu Ala Pro Phe Thr His Lys Val Asn Met Lys Ala 115 120 125													
Arg Phe Glu Gln Met Ala Lys Ala Arg Glu Glu Glu Glu Gln Arg Arg 130 135 140													
Ile Glu Glu Gln LysLeu Leu Arg Met Gln Phe Glu Gln Arg Glu Ile145150155160													
Asp Ala Ala Leu Gln Lys Lys Arg Glu													
Ser Ile Met Asn Gly Ser Thr Ala Glu Asp Glu Glu Gln Thr Arg Ser 180 185 190													
Gly Ala Pro Trp Phe Lys Lys Pro Leu Lys Asn Thr Ser Val Val Asp													

5228

195 200 205 Ser Glu Pro Val Arg Phe Thr Val Lys Val Thr Gly Glu Pro Lys Pro 215 Glu Ile Thr Trp Trp Phe Glu Gly Glu Ile Leu Gln Asp Gly Glu Asp 230 235 Tyr Gln Tyr Ile Glu Arg Gly Glu Thr Tyr Cys Leu Tyr Leu Pro Glu 245 250 255 Thr Phe Pro Glu Asp Gly Gly Glu Tyr Met Cys Lys Ala Val Asn Asn 265 Lys Gly Ser Ala Ala Ser Thr Cys Ile Leu Thr Ile Glu Ser Lys Asn 280

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<211> 98
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<213> Homo sapiens
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<222> (15)
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5229

<400> 5948

Trp His Tyr Gly Met Tyr Gly Gln Ala Xaa Pro Cys Gln Glu Xaa Ile 1 5 10 15

Pro Gly Met Val Glu Ser Phe Ile Xaa Asn Gly Trp Phe Ser Xaa Tyr 20 25 30

Ala Lys Arg Pro Met Ser Asn Pro Leu Leu Leu Ile Pro Ala Ala Trp 35 40 45

Gly Leu Val Pro Val Val Pro Gln Lys Cys Gly Pro Arg Thr Gln Pro 50 55 60

Val Xaa Ala Ser Ser Gly Asn Leu Val Lys Lys Cys Lys Leu Leu Gly 65 70 75 80

Pro Thr Leu Asn Leu Leu Asn His Lys Leu Cys Phe Asn Lys Gln Pro 85 90 95

Ala Leu

<210> 5949

<211> 138

<212> PRT

<213> Homo sapiens

<400> 5949

Val Pro Asp Phe Gln Gly Gln Gln Phe Ile Leu Glu Lys Gly Asp Tyr

1 5 10 15

Pro Arg Trp Ser Ala Trp Ser Gly Ser Ser Ser His Asn Ser Asn Gln 20 25 30

Leu Leu Ser Phe Arg Pro Val Leu Cys Ala Asn His Asn Asp Ser Arg
35 40 45

Val Thr Leu Phe Glu Gly Asp Asn Phe Gln Gly Cys Lys Phe Asp Leu 50 55 60

Val Asp Asp Tyr Pro Ser Leu Pro Ser Met Gly Trp Ala Ser Lys Asp 65 70 75 80

Val Gly Ser Leu Lys Val Ser Ser Gly Ala Trp Val Ala Tyr Gln Tyr
85 90 95

Pro Gly Tyr Arg Gly Tyr Gln Tyr Val Leu Glu Arg Asp Arg His Ser 100 105 110

Gly Glu Phe Cys Thr Tyr Gly Glu Leu Gly Thr Gln Ala His Thr Gly
115 120 125

Gln Leu Gln Ser Ile Arg Arg Val Gln His 130 135

<210> 5950

<211> 196

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (158)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5950

Lys Lys Asp Phe Phe Gly Lys Ser Asp Pro Phe Leu Val Phe Tyr Arg
1 5 10 15

Ser Asn Glu Asp Gly Thr Phe Thr Ile Cys His Lys Thr Glu Val Val 20 25 30

Lys Asn Thr Leu Asn Pro Val Trp Gln Pro Phe Ser Ile Pro Val Arg 35 40 45

Ala Leu Cys Asn Gly Asp Tyr Asp Arg Thr Val Lys Ile Asp Val Tyr
50 55 60

Asp Trp Asp Arg Asp Gly Ser His Asp Phe Ile Gly Glu Phe Thr Thr 65 70 75 80

Ser Tyr Arg Glu Leu Ser Lys Ala Gln Asn Gln Phe Thr Val Tyr Glu 85 90 95

Val Leu Asn Pro Arg Lys Lys Cys Lys Lys Lys Lys Tyr Val Asn Ser 100 105 110

Gly Thr Val Thr Leu Leu Ser Phe Ser Val Asp Ser Glu Phe Thr Phe
115 120 125

Val Asp Tyr Ile Lys Gly Gly Thr Gln Leu Asn Phe Thr Val Ala Ile 130 135 140

Asp Phe Thr Ala Ser Asn Gly Asn Pro Leu Gln Pro Thr Xaa Leu His 145 150 155 160

Tyr Met Ser Pro Tyr Gln Leu Ser Ala Tyr Ala Met Ala Leu Lys Ala

5231

165 170 175

Val Gly Glu Ile Ile Gln Asp Tyr Asp Ser Asp Lys Leu Phe Pro Ala 180 185 190

Tyr Gly Phe Gly 195

<210> 5951

<211> 124

<212> PRT

<213> Homo sapiens

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<222> (80)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5951

Lys Glu His Leu Met Cys Trp Ala Phe Tyr Arg Leu Thr Leu Thr Ser 1 5 10 15

Gln Ala Glu Leu Tyr Thr Phe Ser Phe Thr Thr Ile Ser Ile Leu Ile 20 25 30

Asn Tyr Gly Phe Met Leu Leu Lys Thr Ile Tyr Asn Ala Asp His Tyr 35 40 45

Tyr Lys Cys Val Val Leu Thr Asn Cys Thr Glu Thr Ala Leu Ser Leu 50 60

Tyr Ser Val Trp Ile Phe Gly Glu Asn Asn Lys Cys Ser Gln Glu Xaa 65 70 75 80

Leu Leu Arg Gly Arg Leu Cys Glu Trp Ile Thr Leu Lys Ala Ala Phe 85 90 95

Glu Thr Pro Val Ser Gly Ile Ser Cys Ile Leu Ala Trp Arg Pro Asp 100 105 110

Val Asn Leu Thr Ser Ser Lys Asn Thr Arg Phe Pro 115 120

<210> 5952

<211> 129

<212> PRT

<213> Homo sapiens

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<220>
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<222> (118)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5952
Thr Phe Ala Gly Leu Cys His Ile Pro Leu Ala Val Ser Ser Glu Glu
Ala Pro Phe Ala Leu Gly Asn Gly Ser Val Ser His Trp Phe Ile Ser
             20
                                 25
Leu Glu Leu Phe Gly Ser Gln Ile Cys Phe Phe Glu Asn Leu Ser Trp
Gly Arg Leu Gln Val Val Asn Arg Gly Val Gly Val Gly Gly Val
His Tyr Leu Gly Leu Leu Gly Ala Ser Arg Phe Ser Gly Arg Arg Ile
 65
                     70
His Cys Val Leu Leu Leu Phe Pro Trp Pro Gly Leu Pro Ala Ser Leu
                 85
                                     90
Cys His Pro Ala Trp Gly Lys Ala Pro Thr Gly Ile Val Ser Pro Leu
His Ala Ser Leu Ala Xaa Lys Ser Gln Lys Lys Ser Lys Thr Gly Arg
                            120
Lys
<210> 5953
<211> 179
<212> PRT
<213> Homo sapiens
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<222> (21)
<223> Xaa equals any of the naturally occurring L-amino acids
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<222> (99)
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5233

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Arg Ile Ile Asp Asn Ser Ser Glu Gln Lys Pro Glu Asn Glu Xaa Lys

170

Lys Lys Tyr

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<210> 5954 <211> 273 <212> PRT <213> Homo sapiens <220>

5234

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5235

Lys Val Tyr Gly Asn Ile Arg Ala Val Ala Ser Arg Ser Ala Asp Arg 260 265 270

Phe

<210> 5955

<211> 92

<212> PRT

<213> Homo sapiens

<400> 5955

Arg Met Glu Arg Ser Leu Lys Gly Ile Phe Ile Lys Gln Val Leu Glu 1 5 10 15

Asp Ser Pro Ala Gly Lys Thr Asn Ala Leu Lys Thr Gly Asp Lys Ile 20 25 30

Leu Glu Val Ser Gly Val Asp Leu Gln Asn Ala Ser His Ser Glu Ala 35 40 45

Val Glu Ala Ile Lys Asn Ala Gly Asn Pro Val Val Phe Ile Val Gln
50 60

Ser Leu Ser Ser Thr Pro Arg Val Ile Pro Asn Val His Asn Lys Ala 65 70 75 80

Asn Lys Ile Thr Gly Asn Gln Asn Gln Asp Thr Gln 85 90

<210> 5956

<211> 203

<212> PRT

<213> Homo sapiens

<400> 5956

Asn Ser Ala Arg Gly Asp Gln Glu Ser Thr Cys Ala Glu Val Leu Val 1 5 10 15

Ile Trp Ser Leu Phe Pro Ser Gly Tyr Gln Leu Pro Ser Ala Ala Gln
20 25 30

Ala Val Val Pro Glu Ala Arg Gly Arg Ser Gln Thr Cys Gly Asn Phe 35 40 45

Ala Val Tyr Leu Gln Gly Cys Cys Phe Gln Gln Asp Pro Lys Leu Glu

5236

50 55 60 Lys Glu Glu Glu Glu Thr Asp Pro Ile Ser Ala Arg Ser His Cys Ile 70 75 Gln Arg Arg Ile Ser Lys Lys Glu Lys Lys Glu Gly Arg Glu Val Asp 85 90 Arg Tyr Lys Met Lys Ser Cys Gln Lys Met Glu Gly Lys Pro Glu Asn 100 105 Glu Ser Glu Pro Lys His Glu Glu Glu Pro Lys Pro Glu Glu Lys Pro 115 120 Glu Glu Glu Lys Leu Glu Glu Glu Ala Lys Ala Lys Gly Thr Phe 135 Arg Glu Arg Leu Ile Gln Ser Leu Gln Glu Phe Lys Glu Asp Ile His 145 150 Asn Arg His Leu Ser Asn Glu Asp Met Phe Arg Glu Val Asp Glu Ile 165 170 Asp Glu Ile Arg Arg Val Arg Asn Lys Leu Ile Val Met Arg Trp Lys 180 185 Val Asn Arg Asn His Pro Tyr Pro Tyr Leu Met 195 200 <210> 5957 <211> 77 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (42) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (59) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (60)

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5237

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<210> 5959 <211> 56 <212> PRT <213> Homo sapiens <400> 5959

5238

Asn Gln Val Tyr Phe Leu Met Ala Phe Ile Thr Leu Thr His Lys Val 1 5 10 15

Thr Asp Gln Cys Ile Ser Tyr Gly Tyr Arg Pro Arg Ala Leu Glu Gly
20 25 30

Gly Gly Leu Leu Lys His Met Gln Lys Lys Lys Lys Lys Lys Phe Cys
35 40 45

Ile Tyr Asn His Phe Asn Leu Leu
50 55

<210> 5960

<211> 82

<212> PRT

<213> Homo sapiens

<400> 5960

Gly Tyr Val Cys Glu Phe Leu Gly Asn Leu Ser Val Leu Asp Ala Ser 1 5 10 15

Leu Gln Gln Gly Pro Leu Leu Ala Met Asp Gly Pro Gly Arg Ser Leu 20 25 30

Glu Ile Thr His Leu Lys Asn Glu Gly Pro Met Lys Val Phe Gly Cys 35 40 45

Leu Leu Met Pro Leu Leu Leu Thr Leu Leu Phe Ala Tyr Phe Gln Asn 50 55 60

Ile Ile Lys Cys Gln His Ile Ile Ser Glu Arg Gln Val Gly Val Gly 65 70 75 80

Glu Lys

<210> 5961

<211> 77

<212> PRT

<213> Homo sapiens

<400> 5961

Phe Val Thr Cys His Asn Thr Lys Gln Val Thr Glu Glu Thr Ile Met 1 5 10 15

Gly Pro Arg Gly Arg Cys Leu Tyr His Val Asp Lys Ile Gln Ser Ser 20 25 30

5239

Leu Phe Gln Thr Lys His Phe Ala Leu Glu Thr Phe Glu Thr Ser Met 35 40 45

Ala Val Glu Tyr Ser Arg Asp Asp Leu Lys Ile Leu Glu Ala Val Glu 50 55 60

Val Pro Val Val Gly Ala Arg His Gly Ser Gly Asp Pro 65 70 75

<210> 5962

<211> 170

<212> PRT

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<400> 5962

Ala Asp Ala Trp Val Asp Tyr Ser Glu Asp Lys Ser Ser Trp Asp Asn
1 5 10 15

Gln Gln Glu Asn Pro Pro Pro Thr Lys Lys Ile Gly Lys Lys Pro Val 20 25 30

Ala Lys Met Pro Leu Arg Arg Pro Lys Met Lys Lys Thr Pro Glu Lys 35 40 45

Leu Asp Asn Thr Pro Ala Ser Pro Pro Arg Ser Pro Ala Glu Pro Asn 50 55 60

Asp Ile Pro Ile Ala Lys Gly Thr Tyr Thr Phe Asp Ile Asp Lys Trp 65 70 75 80

Asp Asp Pro Asn Phe Asn Pro Phe Ser Ser Thr Ser Lys Met Gln Glu 85 90 95

Ser Pro Lys Leu Pro Gln Gln Ser Tyr Asn Phe Asp Pro Asp Thr Cys 100 105 110

Asp Glu Ser Val Asp Pro Phe Lys Thr Ser Ser Lys Thr Pro Ser Ser 115 120 125

Pro Ser Lys Ser Pro Ala Ser Phe Glu Ile Pro Ala Ser Ala Met Glu 130 135 140

Ala Asn Gly Val Asp Gly Asp Gly Leu Asn Lys Pro Ala Lys Lys

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145
                     150
                                         155
                                                             160
Lys Thr Pro Leu Lys Thr Glu His Leu Xaa
                165
<210> 5963
<211> 55
<212> PRT
<213> Homo sapiens
<400> 5963
Leu Ile Ala Gly Ile Gln His Gly Cys Gln Asp Ile Gly Ala Arg Ser
                                      10
Leu Ser Val Leu Arg Ser Met Met Tyr Ser Gly Glu Leu Lys Phe Glu
Lys Arg Thr Met Ser Ala Gln Ile Glu Gly Gly Val His Gly Leu His
         35
                              40
Ser Tyr Glu Lys Arg Leu Tyr
     50
<210> 5964
<211> 493
<212> PRT
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<400> 5964
Val Ile Arg Gly Gly Ser Asn Arg Arg Gly Glu Gly Glu Val Ile Pro
Glu Glu Ser Arg Leu Gly Arg Thr Arg Trp Pro Gly Asn Arg Val Ile
                                  25
Arg Glu Met Lys Pro Thr Gly Thr Asp Pro Arg Ile Leu Ser Ile Ala
                              40
                                                  45
         35
Ala Glu Val Ala Lys Ser Pro Glu Gln Asn Val Pro Val Ile Leu Leu
     50
                          55
Lys Leu Lys Glu Ile Ile Asn Ile Thr Pro Leu Gly Ser Ser Glu Leu
                                          75
 65
                      70
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Lys	Lys	Ile	Lys	Gln 85	Asp	Ile	Tyr	Cys	Туr 90	Asp	Leu	Ile	Gln	Tyr 95	Cys
Leu	Leu	Val	Leu 100	Ser	Gln	Asp	Tyr	Ser 105	Arg	Ile	Gln	Gly	Gly 110	Trp	Xaa
Thr	Ile	Ser 115	Gln	Leu	Thr	Gln	Ile 120	Leu	Ser	His	Cys	Cys 125	Val	Gly	Leu
Glu	Pro 130	Gly	Glu	Asp	Ala	Xaa 135	Glu	Phe	Tyr	Asn	Glu 140	Leu	Leu	Pro	Ser
Ala 145	Ala	Glu	Asn	Phe	Leu 150	Val	Leu	Gly	Arg	Gln 155	Xaa	Gln	Thr	Cys	Phe 160
Ile	Asn	Ala	Ala	Xaa 165	Ala	Glu	Glu	Lys	Asp 170	Glu	Leu	Leu	His	Phe 175	Phe
Gln	Ile	Val	Thr 180	Asp	Ser	Leu	Phe	Trp 185		Leu	Gly	Gly	His 190	Val	Glu
Leu	Ile	Gln 195	Asn	Val	Leu	Gln	Ser 200	Asp	His	Phe	Leu	His 205	Leu	Leu	Gln
Ala	Asp 210	Asn	Val	Gln	Ile	Gly 215	Ser	Ala	Val	Met	Met 220	Met	Leu	Gln	Asn
Ile 225	Leu	Gln	Ile	Asn	Ser 230	Gly	Asp	Leu	Leu	Arg 235	Ile	Gly	Arg	Lys	Ala 240
Leu	Туr	Ser	Ile	Leu 245	Asp	Glu	Val	Ile	Phe 250	Lys	Leu	Phe	Ser	Thr 255	Pro
Ser	Pro	Val	Ile 260	Arg	Ser	Thr	Ala	Thr 265	Lys	Leu	Leu	Leu	Leu 270	Met	Ala
Glu	Ser	His 275	Gln	Glu	Ile	Leu	Ile 280	Leu	Leu	Arg	Gln	Ser 285	Thr	Cys	Tyr
Ĺys	Gly 290	Leu	Arg	Arg	Leu	Leu 295	Ser	Lys	Gln	Glu	Thr 300	Gly	Thr	Glu	Phe
Ser 305	Gln	Glu	Leu	Arg	Gln 310	Leu	Val	Gly	Leu	Leu 315	Ser	Pro	Met	Val	Туr 320
Gln	Glu	Val	Glu	Glu 325	Gln	Lys	Leu	His	Gln 330	Ala	Ala	Cys	Leu	Ile 335	Gln
Ala	Tyr	Trp	Lys 340	Gly	Phe	Gln	Thr	Arg 345	Lys	Arg	Leu	Lys	Lys 350	Leu	Pro

5243

Ser Ala Val Ile Ala Leu Xaa Arg Ser Phe Arg Ser Lys Arg Ser Lys 360 365 355 Met Leu Leu Glu Ile Asn Arg Gln Lys Glu Glu Glu Asp Leu Lys Leu 375 380 370 Gln Leu Gln Leu Gln Arg Gln Arg Ala Met Arg Leu Ser Arg Glu Leu 390 395 Gln Leu Ser Met Leu Glu Ile Val His Pro Gly Gln Val Glu Lys His 410 Tyr Arg Glu Met Gly Arg Glu Ile Ser Thr Asp Tyr Pro Glu Thr Leu 420 425 Glu Xaa Val Xaa Gly Lys Glu Lys Phe Ser Pro Thr Glu Ala Val Ser 440 His Arg Ser Ile Lys Ala Thr Val Thr Leu Gln Lys Ser Lys Arg Phe 455 Lys Phe Leu Xaa Glu Ile Xaa Arg Xaa Glu Lys Arg Lys Leu Phe Cys 470 475 480 465 Leu Pro Trp Ala Lys Gly Pro Xaa Lys Glu Thr Ser Thr 485

<210> 5965
<211> 47
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5965

1 5 10 15

Leu Phe Val Cys Xaa Phe Leu Val Ala Arg Ser Asp Pro Arg Ile Phe

Leu Leu Ser Arg Glu Thr Arg Arg Ile Met Arg Leu Phe Leu Val Ala
20 25 30

Phe Gln Glu Tyr Glu Glu Lys Asn Gly Ser Gln Ser Gly Phe Glu 35 40 45

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<210> 5966
 <211> 65
<212> PRT
<213> Homo sapiens
<400> 5966
Leu His Lys Thr Leu Val Arg Tyr Gln Leu Leu His Arg Glu Ser Ser
Tyr Thr Ile Pro Tyr Ile Phe Ile Tyr Leu Leu Phe Tyr Tyr Ser Arg
                                 25
                                                      30
Ile Thr Lys Leu Asp Ala Leu Ser Gln Phe Phe Ala Thr Glu Asn Tyr
                              40
Leu Phe Leu Leu Pro Phe His Thr Pro Cys Ile Tyr Asp Gln Pro Leu
                                              60
His
 65
<210> 5967
<211> 67
<212> PRT
<213> Homo sapiens
<400> 5967
Ala Lys Asn Ile Lys Gly Arg Glu Ile Gly Ile Gln Gly Asp Ser Val
Gln Glu Ser Lys Pro Gly Ile Cys Leu Cys Gly Arg Pro Asn His Tyr
             20
Tyr Leu Asn Pro Leu Arg Lys Ala Phe Pro Ala Phe His Asn Ser Gly
Ser Ser Phe Ile Lys Trp Glu Thr His Asn Cys Pro Thr Tyr Leu Thr
                         55
Gly Val Leu
 65
<210> 5968
<211> 124
<212> PRT
```

<213> Homo sapiens

5245

<400> 5968

Leu Glu Thr Ser Ala Val Tyr Ile Ser Leu Tyr Ser Phe Phe Ser Pro 1 5 10 15

Leu Pro Met Met Phe Arg Asn Thr Thr Ile Leu Phe Ala Lys His Ser 20 25 30

Asn Tyr Leu Ile Ser Lys Gln Val Leu Glu Tyr His Arg Asn His Lys
35 40 45

Thr Ala His Gln Asn Met Pro His Ser Thr Ser Ser Glu Gln Ser Gly 50 55 60

Lys Arg Thr Ser Arg Ser Trp Lys Ser Gly Leu Val Leu Ser Arg Ser 65 70 75 80

Thr Lys Asn Leu Asn Ile Ser Asp Asn His Asn Thr Ser Leu Thr Trp 85 90 95

Glu Arg Ala Val Ile Ile Phe His Arg Gly Gln Asp Gly Ser Leu Asp 100 105 110

Glu Glu Val Asp Met Pro Phe Pro Asn Ser Arg Lys 115 120

<210> 5969

<211> 87

<212> PRT

<213> Homo sapiens

<400> 5969

Ile Cys Pro Arg Ser Pro Ser Lys Val Ser Val Ala Leu Arg Val Arg

1 5 10 15

Thr Leu Ile Arg Leu Gly Arg Val Leu Glu Ser Leu Arg Arg Gln Glu 20 25 30

Glu Cys Ala Glu Leu Ser Val Ser Gly Arg Leu Ile His Cys Trp Ala 35 40 45

His Ile Lys Ala Pro Met Gly Ser Arg Pro Asp Cys Thr Trp Leu Phe 50 55 60

Cys Trp Lys Lys Ser Met Ala Ala Gln Arg Thr Lys Ile Ser Ser Gly 65 70 75 80

Lys Ala Ser Phe Asp Cys Gln

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<210> 5970
<211> 57
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (4)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5970
Met Glu Arg Xaa Gln Val Phe Asn Ser Thr Asn Ile Phe Phe Ser Phe
                                      10
Val Pro Phe Phe Cys Leu Leu Tyr Thr Asp Ile Pro Thr Leu Ala Thr
             20
                                                      30
Ala Gln Arg Gly Ser Tyr Leu Arg Asn Thr Ala Asp Phe Glu Tyr Leu
                             40
Val Leu Gln Ser His Leu Ser Glu Ala
                         55
<210> 5971
<211> 184
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (183)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5971
Glu Lys Lys Lys Thr Leu Lys Lys Lys Ile Pro Lys Tyr His Gln Pro
Arg Lys Glu Lys Arg Arg Gln Lys Pro Leu Gly Gly Phe Gly Lys Glu
             20
                                 25
                                                      30
Ser Lys Glu Lys Glu Pro Lys Thr Lys Gly Lys Asp Ala Lys Asp Gly
         35
                             40
Lys Lys Asp Ser Ser Ala Ala Gln Pro Gly Val Ala Phe Ser Val Asp
     50
                         55
```

5247

Asn Thr Ile Lys Arg Pro Asn Pro Ala Pro Gly Thr Arg Lys Lys Ser 65 70 75 80

Ser Asn Ala Glu Val Ile Lys Glu Leu Asn Lys Cys Arg Glu Glu Asn 85 90 95

Ser Met Arg Leu Asp Leu Ser Lys Arg Ser Ile His Ile Leu Pro Ser 100 105 110

Ser Ile Lys Glu Leu Thr Gln Leu Thr Glu Leu Tyr Leu Tyr Ser Asn 115 120 125

Lys Leu Gln Ser Leu Pro Ala Glu Val Gly Cys Leu Val Asn Leu Met 130 135 140

Thr Leu Ala Leu Ser Glu Asn Ser Leu Thr Ser Leu Pro Asp Ser Leu 145 150 155 160

Asp Asn Leu Lys Lys Leu Arg Met Leu Asp Leu Arg His Asn Lys Leu 165 170 175

Arg Glu Ile Pro Ser Val Xaa Val 180

<210> 5972

<211> 58

<212> PRT

<213> Homo sapiens

<400> 5972

Ala His Pro Thr Arg Asn Tyr Val Lys Lys Lys Phe Lys Lys Glu Phe 1 5 10 15

Lys Gly Asp Tyr Ser Val Thr Val Thr Pro Gly Lys Leu Arg Thr Leu 20 25 30

Cys Glu Ile Asp Trp Pro Ala Leu Glu Val Gly Trp Pro Ser Glu Gly

Ser Leu Asp Arg Ser Leu Val Ser Lys Val 50 55

<210> 5973

<211> 35

<212> PRT

<213> Homo sapiens

5248 <400> 5973 Gly Gln Gln Phe Glu Thr Ser Leu Thr Ile Ser Thr Lys Cys Thr Lys 5 10 Val Ser Trp Ala Trp Trp Arg Ala Pro Val Ile Pro Ala Thr Trp Glu 25 Thr Asp Ala 35 <210> 5974 <211> 86 <212> PRT <213> Homo sapiens <400> 5974 Arg Asn Ser Gly Phe Cys Cys Asn Arg Phe Ile Phe Leu Leu Phe Ser 10 Pro Ile Leu Ala Gln Ser Gly Ala Ile Val Leu Leu Val Arg Pro Ser 25 Leu Lys Met Arg Ser Arg Glu Ala Gly Pro Lys Leu Arg Arg Ile Gln 35 40 45 Glu Pro Ala Asn Gly Ser Pro Gly Ala Val Ser Glu Thr Gly Gly Tyr Arg Glu Glu Arg Leu Ser Asp Ala Glu Ile Met Gly Lys Leu Leu Ala 70 75 Trp Leu Ala Val Gly Met <210> 5975 <211> 53 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (22) <223> Xaa equals any of the naturally occurring L-amino acids

<220> <221> SITE <222> (46)

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<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5975
Ile Phe Ser Asn Leu Val Phe Phe Tyr Ile Ile Ile Ala Ser Leu Lys
                                     10
Ile Val Leu Gln Ala Xaa His Gly Trp Val Thr Pro Val Tyr Leu Thr
                                 25
             20
Leu Trp Glu Ala Glu Ala Gly Lys His Leu Lys Ser Gly Xaa Gln Asn
                             40
Asn Pro Gly His Trp
    50
<210> 5976
<211> 27
<212> PRT
<213> Homo sapiens
<400> 5976
Cys Leu Gly Ala Tyr Ala Asp Tyr Ser Leu Arg Gly Gly Val Glu Arg
                                     10
Arg Arg Arg Tyr Ala Gly Arg Arg Val Leu Cys
             20
<210> 5977
<211> 91
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (69)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (86)
<223> Xaa equals any of the naturally occurring L-amino acids
```

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<400> 5977
Val Ser Arg Leu Val Ser Lys Glu Phe Ser Lys Ser Trp Ser Cys Gly
                                      10
                                                          15
Gly Cys Ser Tyr Ala Ala Gly Ala Val Thr Glu Arg Gln Glu Gly Leu
                                  25
Gly Gly Lys Gly Arg Arg Leu Asn Gln Ala Pro Ala Trp Thr Trp Ala
                             40
Cys Val Leu Xaa Ser His Leu Ser Ser Arg Thr Gln Val Gly Lys Ser
     50
                         55
Leu Ser Gly His Xaa Pro Leu Gly Gly Val Gly Leu Ser Val Pro Phe
                     70
Leu Ala Val Thr Ser Xaa Cys Ala Arg Val Glu
                 85
<210> 5978
<211> 224
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (107)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (117)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (127)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (129)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (135)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (140)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (151)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (152)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (213)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (216)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5978
Ala Leu Val Ser Val Leu Thr Lys Glu Tyr Glu Asp Ala Val Ser Ile
Ala Thr Ala Val Leu Val Val Val Thr Val Ala Phe Ile Gln Glu Tyr
                                                      30
                                  25
             20
Arg Ser Glu Lys Ser Leu Glu Glu Leu Thr Lys Leu Val Pro Pro Glu
                              40
         35
Cys Asn Cys Leu Arg Glu Gly Lys Leu Gln His Leu Leu Ala Arg Glu
Leu Val Pro Gly Asp Val Val Ser Leu Ser Ile Gly Asp Arg Ile Pro
                     70
                                          75
Ala Asp Ile Arg Leu Thr Glu Val Thr Asp Leu Leu Val Asp Glu Ser
                  85
Ser Phe Thr Gly Glu Ala Glu Pro Cys Ser Xaa Thr Asp Ser Pro Leu
                                                     110
            100
                                 105
Thr Gly Gly Xaa Leu Thr Thr Leu Ser Asn Ile Val Phe Xaa Gly
                             120
                                                 125
Xaa Leu Val Gln Tyr Gly Xaa Gly Gln Gly Val Xaa Ile Gly Thr Gly
```

5252

130 135 140 Glu Ser Ser Gln Phe Gly Xaa Xaa Phe Lys Met Met Gln Ala Glu Glu 150 155 Thr Pro Lys Thr Pro Leu Gln Lys Ser Met Asp Arg Leu Gly Lys Gln 165 170 Leu Thr Leu Phe Ser Phe Gly Ile Ile Gly Leu Ile Met Leu Ile Gly 180 185 Trp Ser Gln Gly Lys Gln Leu Leu Ser Met Phe Thr Ile Gly Val Ser 200 Leu Ala Val Ala Xaa Ile Ser Xaa Gly Ser Ala His Ser Ser Ser Trp 215 220 <210> 5979 <211> 155 <212> PRT <213> Homo sapiens <400> 5979 Pro Cys Cys Ile Trp Lys Ala Lys Trp Gly His Glu Glu Gly Trp Lys 5 Gly Gln Gly Val Met Ala Ala Tyr Leu Val Ser Pro Thr Pro Pro Val 20 Leu Gly Glu Pro Ser Cys Tyr Thr Gly Ser Ser Pro Arg Ser Ser Phe 40 Leu Ser Pro Thr Ser Trp Trp Arg Leu Gln Gly Arg Pro Glu Ser Trp 55 Thr Glu Arg Val Thr Gly Gly Val Gly Asp Lys His Gln Thr Ser Ile 65 70 75 Val Cys Pro Asp Leu Gly Val Ile Gly Gly Met Gly Trp Glu Arg Val Ser Trp Tyr Ser His Gly Leu Ile Phe Phe Val Ser Ile Pro Phe Ile 105

Ser Leu Cys Leu Asn Arg Gly Gly Gly Val Val Thr Gly Asn Lys Asp

120

5253

<210> 5980

<211> 90

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5980

Ile Arg His Glu Gly Thr Leu Pro Leu Gln Arg Val Arg Ala Leu Leu 1 5 10 15

His Pro Gln Arg Ser Xaa Ala Lys His Leu Arg Gly His Ala Ser Val 20 25 30

Arg Pro Cys Arg Cys Asn Glu Cys Xaa Lys Ser Phe Ser Arg Arg Asp 35 40 45

His Leu Val Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Phe Thr 50 55 60

Cys Pro Thr Cys Gly Lys Ser Phe Ser Arg Gly Tyr His Leu Ile Arg 65 70 75 80

His Gln Arg Thr His Ser Glu Lys Thr Ser 85 90

<210> 5981

<211> 54

<212> PRT

<213> Homo sapiens

<220>

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<221> SITE
<222> (41)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (46)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5981
Phe Ser Ser Pro Gly Val Val Gly Arg Cys Lys Leu Lys Gly Thr Leu
                                     10
                                                          15
Gly Gly Gly Arg Gly Glu Asp Asp Ser Asp Pro Ser Pro Val Gly
                                 25
Val Arg Ile Thr Gln Glu Leu Arg Xaa Arg Glu Glu Gly Xaa Arg Arg
                             40
Leu Gln Leu Leu Gln Gly
     50
<210> 5982
<211> 96
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (47)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5982
Gly Arg Gln Pro Ala Pro Leu Val Pro Pro Cys Ser Ser Ser His Tyr
                  5
                                     10
His Arg Pro His Thr Leu Thr Arg Thr Leu Thr His Arg Ser Leu Gln
             20
                                 25
                                                     30
Arg Met Arg Trp Gly Tyr Asp Arg Ser Leu Arg Leu Val Ser Xaa Ser
                             40
Leu Leu Gln Pro Pro Pro Gly Phe Gln Pro Ile Leu Phe Ala Ala Gly
                         55
Val Pro Thr Leu Pro Tyr Ser Gln Leu Leu Phe Pro Ala Asp Gly Glu
 65
                     70
                                         75
Met Asp Ser Ala Ala Tyr Pro Pro Thr Pro Leu Gln Gly Val Glu Asp
```

5255

85 90 95

<210> 5983

<211> 78

<212> PRT

<213> Homo sapiens

<400> 5983

Glu Lys Thr Gln Val Cys Asp Ile Ser Val Ile Pro Lys Asn Ile Leu 1 5 10 15

Gly Phe Leu Phe Val Phe Leu Phe Phe Gly Phe Phe Phe Phe Thr Ala 20 25 30

Glu Asn Trp Trp Tyr Phe His Ile His Ser Val Ser Ile Gln Phe Gln 35 40 45

Tyr Pro His Leu Met Arg Lys Lys Cys Phe Thr Asn Glu Gly Gly Ile
50 55 60

Leu Lys Leu Ala Val Met Leu Gly Trp Arg Lys Phe Gly Ile 65 70 75

<210> 5984

<211> 87

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5984

Lys Ile Thr Met Trp Met Ala Val Ser His Ile Thr Asp Val Glu Ser 1 5 10 15

Ile Ile Leu Tyr Leu Tyr Phe Gln Ile Asn Lys Phe Val Lys Gly Phe 20 25 30

His Pro Leu Leu Trp Ser Arg Lys Met Leu Glu Ile Tyr Ile Xaa Ile 35 40 45

Asp Thr Tyr Ile Cys Ile Tyr Ile Lys Lys Ile Leu Thr Thr Lys Val

5256

50 55 60

Pro Glu Pro Pro Ser Lys Val Leu Tyr Tyr Cys Ile Leu Tyr Ile Met 65 70 75 80

Tyr His Pro Met Trp Asn Leu 85

<210> 5985

<211> 101

<212> PRT

<213> Homo sapiens

<400> 5985

Asp Lys Ser Ile Lys Asn Lys Ala Glu Arg Glu Arg Arg Val Arg Glu
1 5 10 15

Leu Asn Ser Ser Asn Thr Lys Lys Phe Leu Glu Glu Arg Lys Arg Leu 20 25 30

Ala Met Lys Gln Ser Lys Glu Met Asp Gln Leu Lys Lys Val Gln Leu 35 40 45

Glu His Leu Glu Phe Leu Glu Lys Gln Asn Glu Gln Leu Leu Lys Ser
50 55 60

Cys His Ala Val Ser Gln Thr Gln Gly Glu Gly Asp Ala Ala Asp Gly 65 70 75 80

Glu Ile Gly Ser Arg Asp Gly Pro Gln Thr Ser Asn Ser Ser Met Lys 85 90 95

Leu Gln Asn Ala Asn 100

<210> 5986

<211> 216

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5986

Lys Ser Ser Arg Gly Asn Thr Gln Ala Thr Ser His Ser Phe Asp Val

5257

15 10 1 5 Arg Val Leu Thr Gln Leu Leu Asn Ser Asp His Arg Ser Thr Ala 25 20 Thr Val Gln Ile Cys Ser Gly Ser Val Asn Leu Lys Gly Ala Val Lys Cys Arg Ala Tyr Ile His Ser Ser Lys Pro Lys Val Lys Asp Ala Val 55 Gln Ala Val Lys Arg Asp Ile Leu Asn Thr Val Ala Asp Arg Cys Glu 70 65 Met Leu Phe Glu Asp Leu Leu Leu Asn Glu Ile Pro Glu Lys Lys Xaa 90 Ser Glu Lys Glu Phe His Val Leu Pro Tyr Arg Val Phe Val Pro Leu 105 100 Pro Gly Ser Thr Val Met Leu Cys Asp Tyr Lys Phe Asp Asp Glu Ser 115 120 Ala Glu Glu Ile Arg Asp His Phe Met Glu Met Leu Asp His Thr Ile 135 Gln Ile Glu Asp Leu Glu Ile Ala Glu Glu Thr Asn Thr Ala Cys Met 155 150 Ser Ser Ser Met Asn Ser Gln Ala Ser Leu Asp Asn Thr Asp Asp Glu 175 170 Gln Pro Lys Gln Pro Ile Lys Thr Thr Met Leu Leu Lys Ile Gln Gln 180 185 Asn Ile Gly Val Ile Ala Ala Phe Thr Val Ala Val Leu Ala Ala Gly Ile Ser Phe His Tyr Phe Ser Asp 215 <210> 5987 <211> 67 <212> PRT <213> Homo sapiens <400> 5987 Pro Phe Leu Val Ser Val Phe Pro Gly Glu Asn Glu Ala Lys Gln Glu

```
Phe Gly Phe Leu Leu Met Ser Ser Tyr Thr Ile His Ser Val Asn Phe
             20
                                  25
                                                      30
Glu Lys Ile Tyr Pro Pro Phe Ser Leu Leu Gly Asp Ile Asn Tyr Ser
                              40
Gln Glu Glu Tyr Asn Glu Leu Tyr Ser Tyr Phe Asp Leu Leu Lys Arg
                          55
Cys Tyr Gln
 65
<210> 5988
<211> 162
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (74)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (93)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (94)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (96)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5988
Pro Ala Glu Leu Lys Cys Ala Val Thr Ser Gln Cys Glu Phe Leu Pro
                                      10
Asn Ser Arg Ala Tyr His Leu Lys Lys Glu Arg Thr Glu Glu Gln Thr
                                 25
Lys Val Leu Arg Asn Glu Thr His Leu Phe Ser Leu Lys Ala Leu Arg
         35
                             40
                                                  45
Gly Gly Arg Arg Pro Ala Gln Ala Gly Gly Gly Phe Gly Gln Ser Glu
```

5259

50 55 60 Asp Pro Ala Arg Thr Leu Val Arg Trp Xaa Ala Ala His Leu Leu Arg 75 70 Ile Leu Leu Glu Ser Cys Ser Pro Arg Gly Leu Leu Xaa Xaa Trp Xaa 90 85 Lys Glu Ala Ala Trp Cys Gly Val Thr Gln Ile Ser Ile Pro Ile Cys 105 Cys Thr Phe Thr Leu Gln Gly Thr Cys Phe Lys Thr Asp Pro Gln Gln 125 120 Val Leu Glu Lys Cys Ile Gln Ser Glu Asp Val Cys Val Ser Val Tyr 135 Ile Gln Ser Ser Val Thr His Ala Pro Gln Ile Ala Ala Lys Ile Pro 160 150 155 Arg His <210> 5989 <211> 87 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (80) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (86) <223> Xaa equals any of the naturally occurring L-amino acids Asn Cys Ala Phe Ser Gly Leu Leu Ser Ser Ile Pro Ser Phe Ser Leu 5 10 Leu Ser Ser Phe Gln His Val Thr Val Lys Ala Phe Ser Leu Ile Phe 20 25 Tyr His Cys Glu Tyr Val Pro Phe Glu Asn Pro Phe Ala Val Ile Phe 40

Val Gly Phe Gly Glu Glu Ala Val Val Asn Ala Cys Ile Ile Leu Ser

5260

50 55 60 Ser Lys Cys Ser Met Leu Ala Leu Leu Ile Ser Gly Asp Val Arg Xaa 70 75 Gln Leu Leu Ser Leu Xaa Lys 85 <210> 5990 <211> 71 <212> PRT <213> Homo sapiens <400> 5990 Arg Pro Ala Glu Asp Val Leu Gln Val Arg Glu Thr Gly Pro Gly Asn 10 Pro Ala Val Thr Glu Asp Tyr Ile Glu Phe Glu Asn Val Gly Ile Phe 20 25 Glu Asn Ala Pro Pro Lys Lys Leu Leu Met Ser Ser Gly Asn Val Arg 35 40 45 Arg Leu Ile Tyr Thr Asp Thr Ala Glu Glu Lys Gly Arg Arg Ile Lys 55 Asp Pro Val Leu Leu Pro Gly <210> 5991 <211> 217 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (51) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (104) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (120)

<223> Xa	a equals	s any of	the	natu	rall	y oc	curr	ing	L-an	nino	acid	s
<220> <221> SI <222> (1 <223> Xa	31)	s anv of	the	natu	ırall	v oc	curr	ing	L-an	nino	acid	ls
<220>	a eguari	, u.i.,										
<221> SI <222> (1												
<223> Xa	•	s any of	the	natu	rall	ly oc	curr	ing	L-an	nino	acid	ls
<400> 59 Gly Tyr		Dho Asn	Wo+	Cl.	Circ	™ •~	Tue	Live	ጥረድ	λτα	Lve	Val
1	irp im	5	Mec	Giu	Cys	10	цуз	Lys	131	my	15	vui
Trp Gly	Ile Tyr 20	Asp Cys	Gln	Gln	Pro 25	Met	Leu	Ala	Ile	Thr 30	Asp	Pro
Asp Met	Ile Lys 35	Thr Val	Leu	Val 40	Lys	Glu	Cys	Tyr	Ser 45	Val	Phe	Thr
Asn Arg 50	Xaa Pro	Phe Gly	Pro 55	Val	Gly	Phe	Met	Lys 60	Asn	Ala	Ile	Ser
Ile Ala 65	Glu Asp	Glu Glu 70	Trp	Lys	Arg	Ile	Arg 75	Ser	Leu	Leu	Ser	Pro 80
Thr Phe	Thr Ser	Gly Lys 85	Leu	Lys	Glu	Met 90	Phe	Pro	Ile	Ile	Ala 95	Gln
Tyr Gly	Asp Val 100	Leu Val	Arg	Xaa	Leu 105	Arg	Arg	Glu	Ala	Glu 110	Lys	Gly
Lys Pro	Val Thr 115	Leu Lys	Asp	Xaa 120	Phe	Gly	Ala	Tyr	Ser 125	Met	Asp	Val
Ile Thr 130	Xaa Thr	Ser Phe	Gly 135	Val	Xaa	Ile	Asp	Ser 140	Leu	Asn	Asn	Pro
Gln Asp 145	Pro Phe	Val Glu 150		Thr	Lys	Lys	Phe 155	Leu	Lys	Phe	Gly	Phe 160
Leu Asp	Pro Leu	Phe Leu 165	Ser	Ile	Ile	Leu 170	Phe	Pro	Phe	Leu	Thr 175	Pro
Val Phe	Glu Ala 180		Val	Ser	Leu 185	Phe	Pro	Lys	Asp	Thr 190	Ile	Asn
Phe Leu	Ser Lys 195	Ser Val	. Asn	Arg 200	Met	Lys	Lys	Ser	Arg 205		Asn	Asp

Lys Gln Lys Val Lys Ser Asp Gly Gly

215

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<210> 5992
<211> 77
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (27)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (29)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 5992
Val Pro Pro Ala Cys Cys Ala Ser Arg Val Ala Arg Leu Gly Phe Ser
                                     10
Arg Cys Thr Cys Pro Arg Trp Pro Gly Pro Xaa Ala Xaa Arg Ala Ala
                                 25
Ala Gly Ala Leu Pro Arg Gly Gln Val Arg Ile Trp Pro Arg Ser His
                             40
Pro Ser Ser Thr Ala Arg Thr Pro His Ser Leu Pro Gln Ser Ile Cys
     50
Leu Ser Pro Met Gly Lys Leu Ile Asn Phe Ala Leu Asp
 65
                     70
<210> 5993
<211> 68
<212> PRT
<213> Homo sapiens
<400> 5993
Lys Met Leu Asn Arg Phe His Asp Cys Leu Leu Glu Asp Phe Lys Val
 1
                 5
                                     10
His Cys Gly Ser Ser Arg Arg Asn Pro Val Asn His Ser Ser His Leu
             20
                                 25
```

5263

Pro Thr Gly Leu Phe Ser Asn Gly Ala Ser Cys Glu Ala Ser Gly Phe 35 40 45

Phe Cys Cys Cys Tyr Leu Phe Phe Phe Phe Asn Ala Leu Glu Asn Thr 50 55 60

Ala Leu Gly Tyr 65

<210> 5994

<211> 128

<212> PRT

<213> Homo sapiens

<400> 5994

Trp Ile Pro Arg Ala Ala Gly Ile Arg His Glu Leu Leu Ser Pro Ala 1 5 10 15

Leu Pro Cys Thr Val His Ser Ser Ser Thr Met Ala Ser Arg Thr Pro
20 25 30

Arg Asn Cys Ala Val Leu Lys Gly Glu Val Asp Leu Thr Ala Leu Ala 35 40 45

Lys Glu Leu Arg Ala Val Glu Asp Val Arg Pro Pro His Lys Val Thr 50 55 60

Asp Tyr Ser Ser Ser Ser Glu Glu Ser Gly Thr Thr Asp Glu Glu Asp 65 70 75 80

Asp Asp Val Glu Glu Glu Gly Ala Asp Glu Ser Thr Ser Gly Pro Glu 85 90 95

Asp Thr Arg Ala Ala Ser Ser Leu Asn Leu Ser Asn Gly Glu Thr Glu 100 105 110

Ser Val Lys Thr Met Ile Val His Asp Asp Val Glu Ser Glu Pro Ala 115 120 . 125

<210> 5995

<211> 52

<212> PRT

<213> Homo sapiens

5264

<400> 5995

His Ser Leu Lys Tyr Ile Tyr Leu Ile Thr Phe Tyr Asn Lys Glu Leu 1 5 10 15

Leu Ser Pro Asn Val Ile Ser Ala His Phe Glu Ile Pro Cys Tyr Arg
20 25 30

Trp Ser Leu Gln Thr Arg Lys Tyr Ser Ser Tyr Tyr Val Tyr Thr Leu 35 40 45

Val Leu Val Leu 50

<210> 5996

<211> 75

<212> PRT

<213> Homo sapiens

<400> 5996

Ile Ser Pro Gly Gln Ser Gly Met Leu Thr Gly Thr Asn Val Arg Asn
1 5 10 15

Cys Ile Val His Cys Thr Cys Cys Pro Val Pro Gln Ala Cys Gln Cys
20 25 30

Leu Glu Ile Leu Phe Gly Leu Leu Lys Pro Leu Phe Ile Glu Asn Phe 35 40 45

Cys Pro Tyr Arg Ser Val Cys Met Gly Leu Gly Lys Ser Thr Cys Val
50 55 60

Tyr Leu Ser Ser Glu Ala Gln Ile His Ser Asn 65 70 75

<210> 5997

<211> 63

<212> PRT

<213> Homo sapiens

<400> 5997

Pro Asp Leu Phe Ala His Arg Glu Val Pro Leu Ser Leu His Gly Leu 1 5 10 15

Ser Asp Leu Ile Pro Pro His Ser Gln Phe Gln Val Val Glu Gln Asp 20 25 30

Glu Ala Ala Pro Ser Pro Leu Pro His Pro Asp Ser Ala Ala Glu Phe

5265

45

40

35

Ile Pro Gln Glu Arg Gly Ser Thr Asp Ser Val His Ala Cys Gly 55 60 <210> 5998 <211> 226 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (1) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (6) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (125) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (170) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (216) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (218) <223> Xaa equals any of the naturally occurring L-amino acids <400> 5998 Xaa Ser Ala Ser Leu Xaa Glu Gln Lys Leu Glu Leu His Arg Gly Gly 1 5 10 Gly Arg Ser Arg Thr Ser Gly Ser Pro Gly Leu Gln Glu Phe Gly Thr 20 Arg Ser Gly Gly Pro Arg Leu Pro Gln Ala Gln Lys Thr Ala Ala Leu 40 35

Pro Arg Thr Arg Gly Ala Gly Leu Leu Glu Ser Glu Leu Arg Asp Gly 50 55 Ser Gly Lys Lys Val Ala Val Ala Asp Val Gln Phe Gly Pro Met Arg 70 75 Phe His Gln Asp Gln Leu Gln Val Leu Leu Val Phe Thr Lys Glu Asp 90 Asn Gln Cys Asn Gly Phe Cys Arg Ala Cys Glu Lys Ala Gly Phe Lys 105 Cys Thr Val Thr Lys Glu Ala Gln Ala Val Leu Ala Xaa Phe Leu Asp 115 120 Lys His His Asp Ile Ile Ile Ile Asp His Arg Asn Pro Arg Gln Leu Asp Ala Glu Ala Leu Cys Arg Ser Ile Arg Ser Ser Lys Leu Ser Glu 150 155 Asn Thr Val Ile Val Gly Val Val Arg Xaa Val Asp Arg Glu Glu Leu Ser Val Met Pro Phe Ile Ser Ala Gly Phe Thr Arg Arg Tyr Val Glu 180 185 Asn Pro Asn Ile Met Ala Cys Tyr Asn Glu Leu Leu Gln Leu Glu Phe 200 Gly Glu Gly Ala Ile Thr Thr Xaa Thr Xaa Gly Leu Leu Lys Tyr 210 215 Ser Leu 225 <210> 5999 <211> 51 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (2) <223> Xaa equals any of the naturally occurring L-amino acids <400> 5999 Gly Xaa Val Gly Pro Ser Leu Val Ser Arg Ile Glu Asn Ile Gln Asn

5267

5 10 15 1 Asp Ile Ser Leu Val Ser Phe Glu Gly Asn Asn Gln Arg Trp Ser Thr 20 25 Gln Leu Leu Val Leu Leu Phe Thr Ile Ser His Leu Val Gln Ser Gly 40 Ser Tyr Ile 50 <210> 6000 <211> 83 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (27) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (35) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (37) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (39) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <223> Xaa equals any of the naturally occurring L-amino acids <400> 6000 Val Leu Asn Ser Met Leu Lys Ser Asn Trp Ile Trp Ser Arg Pro Thr 10 Pro Arg Val Val Ser Gly Val Phe Phe Gln Xaa Leu Ser Gln Thr Thr 25 Gln Val Xaa Leu Xaa Leu Xaa Ala Ala Leu Trp Xaa Gly Val Glu Gly

5268

35 40 45

Gly Gln Gln Met His Cys Arg Val Ile Phe Leu Gly Met Val Phe
50 55 60

Lys Lys Pro Glu Ile Phe Thr Arg Thr Ser Lys Thr Arg Ser Gly Glu 65 70 75 80

Leu Gly Arg

<210> 6001

<211> 146

<212> PRT

<213> Homo sapiens

<400> 6001

Arg Cys Pro Ile Ala Ser Glu Val Pro Trp Thr Ile Thr Glu Ala Glu
1 5 10 15

Leu Arg Val Thr Leu Thr Val Glu Gly Lys Ser Ile Pro Cys Leu Ile 20 25 30

Asp Thr Gly Ala Thr His Ser Thr Leu Pro Ser Phe Gln Gly Pro Val 35 40 45

Ser Leu Ala Pro Ile Thr Val Val Gly Ile Asp Gly Gln Ala Ser Lys 50 55 60

Pro Leu Lys Thr Pro Pro Leu Trp Cys Gln Leu Gly Gln His Ser Phe 65 70 75 80

Met His Ser Phe Leu Val Ile Pro Thr Cys Pro Leu Pro Leu Gly 85 90 95

Arg Asn Ile Leu Thr Lys Leu Ser Ala Ser Leu Thr Ile Pro Gly Val 100 105 110

Gln Leu His Leu Ile Ala Ala Leu Leu Pro Asn Pro Lys Pro Pro Leu 115 120 125

Cys Pro Leu Thr Ser Pro Gln Tyr His Pro Leu Pro Gln Asp Leu Pro 130 135 140

Ser Ala

<210> 6002 <211> 111 <212> PRT <213> Homo sapiens <400> 6002 Ile Pro Tyr Ser Ala Tyr Ile Lys Ser Lys Met Trp Gly Arg Ser Leu 5 Leu Leu Pro Gly Gly Asp Gly Ser Pro Leu Thr Leu Leu Gly Glu Gly 25 Gly Ser Cys Trp Pro Val Gly Met Lys Val Leu Ala Pro His Leu Val 40 Phe Pro Asp Thr Thr Ala Val Gly Cys Trp Gly Ala Pro Leu Gln Pro 60 Phe Glu Cys Gly Ile Leu Gly Ser Pro Leu Asp Leu Pro Trp Cys Gly 70 75 65 Gln Arg Phe Phe Leu Trp Cys Leu Leu Gly Val Glu Gln Leu Ser Ser 85 Lys Ser Phe Leu Ser Cys Trp Asp Val Leu Phe Trp Ser Phe Ser 105 <210> 6003 <211> 65 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (64) <223> Xaa equals any of the naturally occurring L-amino acids <400> 6003 Arg Trp Ala Leu Asp Leu Leu Ile Leu Val Lys Trp Val Trp Asp Leu 10 Leu Thr Phe Val Leu Arg Arg Asp Arg Pro Gly Lys Glu Leu Gly Glu 20 Val Ser Ser Lys Glu Arg Gly Val Gly Thr Arg Met Glu Glu Ser Gly 35

Leu Gln Ile Ala Phe Thr Ser Pro Phe Phe Leu Glu Ser Leu Ser Xaa

60

55

Arg 65

<210> 6004 <211> 427 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (301) <223> Xaa equals any of the naturally occurring L-amino acids <400> 6004 Ala Ala Cys Cys Phe Ser Cys Trp Ala Ser Ser Gly Phe Ala Phe Val 5 10 15 Ala Ser Glu Pro Leu Ala Phe Lys Pro Leu Ser Leu Leu Pro His Thr Pro Leu Ser Leu Thr Pro Leu Phe Cys Cys Pro Val Thr Cys Pro 40 Lys Leu Cys Pro Glu Leu Arg Thr Phe Pro Phe Leu Ser Leu Glu Pro 50 55 Phe Phe Asp Ser Thr Lys Pro Ser Trp Tyr Pro Gly Met Thr Arg Leu 65 70 75 Leu Asp Ala Glu Trp Trp Arg Arg Ser Glu Ala Gly His Leu Arg Arg Gln Val Ala Ala Val Leu Phe Phe Pro Glu Gly Thr Cys Ser Asn Lys 105 Lys Ala Leu Leu Lys Phe Lys Pro Gly Ala Phe Ile Ala Gly Val Pro 115 120 Val Gln Pro Val Leu Ile Arg Tyr Pro Asn Ser Leu Asp Thr Thr Ser 130 135 Trp Ala Trp Arg Gly Pro Gly Val Leu Lys Val Leu Trp Leu Thr Ala 150 155 Ser Gln Pro Cys Ser Ile Val Asp Val Glu Phe Leu Pro Val Tyr His 165 170 175

Pro Ser Pro Glu Glu Ser Arg Asp Pro Thr Leu Tyr Ala Asn Asn Val

Gln Arg Val Met Ala Gln Ala Leu Gly Ile Pro Ala Thr Glu Cys Glu Phe Val Gly Ser Leu Pro Val Ile Val Val Gly Arg Leu Lys Val Ala Leu Glu Pro Gln Leu Trp Glu Leu Gly Lys Val Leu Arg Lys Ala Gly Leu Ser Ala Gly Tyr Val Asp Ala Gly Ala Glu Pro Gly Arg Ser Arg Met Ile Ser Gln Glu Glu Phe Ala Arg Gln Leu Gln Leu Ser Asp Pro Gln Thr Val Ala Gly Ala Phe Gly Tyr Phe Gln Gln Asp Thr Lys Gly Leu Val Asp Phe Arg Asp Val Ala Leu Ala Leu Ala Xaa Leu Asp Gly Gly Arg Ser Leu Glu Glu Leu Thr Arg Leu Ala Phe Glu Leu Phe Ala Glu Glu Gln Ala Glu Gly Pro Asn Arg Leu Leu Tyr Lys Asp Gly Phe Ser Thr Ile Leu His Leu Leu Cly Ser Pro His Pro Ala Ala Thr Ala Leu His Ala Glu Leu Cys Gln Ala Gly Ser Ser Gln Gly Leu Ser Leu Cys Gln Phe Gln Asn Phe Ser Leu His Asp Pro Leu Tyr Gly Lys Leu Phe Ser Thr Tyr Leu Arg Pro Pro His Thr Ser Arg Gly Thr Ser Gln Thr Pro Asn Ala Ser Ser Pro Gly Asn Pro Thr Ala Leu Ala Asn Gly Thr Val Gln Ala Pro Lys Gln Lys Gly Asp

<210> 6005 <211> 68

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<212> PRT
<213> Homo sapiens
<400> 6005
Ile Tyr Thr Asn Arg Lys Leu Gly Thr Asn Leu Leu Cys Leu Trp Leu
Leu Tyr Asn Tyr Gln Gly Lys Gly Asn Leu Pro Ile Lys Tyr Lys Val
                                 25
Val Lys Phe Lys Ile Thr Ile Ile Asn Asn Val Leu Leu Gln Asn
         35
                             40
Glu Met Leu Gly Leu Ile Ile Glu Gly Ser Ser Thr Val Glu Ile Glu
                         55
                                             60
Leu Asn Gly Ser
 65
<210> 6006
<211> 69
<212> PRT
<213> Homo sapiens
<220>
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<222> (15)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
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<222> (17)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 6006
Gly Pro Glu Phe Pro Gly Arg Pro Thr Arg Pro Val Lys Leu Xaa Phe
                  5
                                     10
Xaa Tyr Gln Tyr Met His Val Leu Cys Met Ser Ser Thr Cys Val Asp
             20
Thr Pro Val Asp Val Lys Leu Leu Tyr Asn Ile Asn Ser Met Cys Phe
         35
                             40
Tyr Ile Ser Leu Cys Lys Phe Asn Ile Thr Tyr Ala Val Ile Asn His
                         55
                                             60
Leu Phe Tyr Cys Cys
 65
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<210> 6007
<211> 97
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (43)
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<222> (72)
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<222> (74)
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<222> (83)
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<222> (85)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (90)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 6007
Gln Met Glu Gly Tyr Phe Ser Val Leu Ala Phe Gln Leu Tyr Val Gly
                                      10
Lys Leu Pro Val Leu Leu Gln Val Gln Ser Thr Leu Asp Asp Leu Ser
                                  25
             20
Ile Asn Tyr Ser Gly Cys Asn Ser Pro Lys Xaa Ser Ser Tyr Ile Phe
                              40
         35
Trp Leu Ile Pro Pro His Leu Ser Ile Gln Ser Asp Gly Lys Arg Gly
                                              60
     50
                          55
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5274

Arg Trp Ile Leu Met Ser Cys Xaa Leu Xaa Pro Tyr Phe Gln Val Leu 80

Trp Trp Xaa Arg Xaa Asn Ile Cys Gln Xaa Ser Gly Phe Leu Ala Arg 95

Cys

<210> 6008 <211> 74 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (71) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (74) <223> Xaa equals any of the naturally occurring L-amino acids <400> 6008 Ile Ile Leu Tyr Gln Gly Gln Arg Asp Phe Cys Arg Thr Ser Pro Leu Glu Glu Leu Ser Leu Gly Arg Asn Thr Arg Ile Asn Ile Ser Thr Tyr 25 Ser Ser Pro Lys Asn Phe Pro Pro His Tyr Ser His Leu Pro Ile Asn 35 40

Asn Leu Leu Trp Val Asn Ile Gln His Ser Val Leu Val Gln Ser Ile

60

65 70 <210> 6009

Cys Ser Ala Ile Thr Val Xaa Ser Thr Xaa

<211> 47 <212> PRT <213> Homo sapiens <220> <221> SITE

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<222> (20)
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<400> 6009
Met Pro Gly Ile Val Cys Lys Gly Ile Val Asp Asn Lys Val Ile Leu
                                     10
Met Thr Arg Xaa Lys Ser Phe Leu Leu Ser Leu Ile Arg Pro Leu Val
             20
Gly Trp Gly Val Gly Arg Arg Val Val Leu Thr Glu Ser Phe Lys
                             40
<210> 6010
<211> 150
<212> PRT
<213> Homo sapiens
<220>
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<222> (70)
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<221> SITE
<222> (146)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 6010
Gly Val Tyr Leu Asn Val Leu Pro Ser Pro Phe Pro Ser Arg Leu Cys
                  5
                                      10
  1
Ser Phe Glu Gly Leu Gly Val Cys Ser Arg Pro Cys Cys Leu Ala Gln
                                  25
             20
Asn Met Leu Arg Lys Val Leu Arg Thr His Phe Phe Pro Ile Lys Pro
                              40
Ile Ser Phe Pro Asn His Lys Gly Val Cys Asp Ser Ser Pro Arg Glu
```

5276

50 55 60 Thr Lys Glu Leu Gln Xaa Gly Val Trp Phe Ser Pro Val Gln Thr His 70 75 Pro Glu Leu Xaa Arg Cys Leu Ser Asn Thr Leu Ser Leu Pro Lys Gln 85 90 Pro Val Gln Thr Phe Ser Leu Gly His Glu Ala Pro Arg Val Leu Pro 100 105 110 Val Pro Xaa Ser Asp Ala Tyr Leu Ser Ala Glu Pro Gln Asn Leu Cys 120 Ser Gly Asn Ala Val His Leu Leu Ser Val Gly Ser Glu His Ile Val 135 140 Leu Xaa Asp Thr Ser Phe 145 150 <210> 6011 <211> 79 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (13) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (60) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (61) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (66) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (77) <223> Xaa equals any of the naturally occurring L-amino acids

<400> 6011

Val Leu Arg Met Gln His Gly Ser Gly Phe Gly Ile Xaa Phe Asn Ala 1 5 10 15

Thr Asp Ala Leu Arg Cys Val Asn Asn Tyr Gln Gly Met Leu Lys Val
20 25 30

Ala Cys Ala Glu Glu Trp Gln Glu Ser Arg Thr Glu Gly Glu His Ser 35 40 45

Lys Glu Val Ile Lys Pro Tyr Asp Trp Thr Tyr Xaa Xaa Asp Tyr Lys 50 55 60

Gly Xaa Leu Leu Gly Glu Ser Leu Lys Leu Lys Val Xaa Ser Ile 65 70 75

<210> 6012

<211> 81

<212> PRT

<213> Homo sapiens

<400> 6012

Ile Phe Arg Ser Asp Phe Leu Leu His Phe Tyr Leu Thr Lys Glu Thr
1 5 10 15

Gly His Thr Pro Trp Phe Arg Asp Val Val Ile Ala Tyr Leu Pro Val 20 25 30

Phe Lys Lys Cys Phe Leu Gln Leu Leu Ser Thr Thr Val Leu Ser Leu 35 40 45

Met Asn Thr Val Val Ser His Pro Asn Ser Cys Thr Glu Ile Ile Ser 50 55 60

His Glu Ser Phe Ser Asn Ile Ser Asn Glu Ser Phe Ser Asn Leu Gly 65 70 75 80

Ala

<210> 6013

<211> 112

<212> PRT

<213> Homo sapiens

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<222> (39)
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<222> (94)
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<222> (98)
<223> Xaa equals any of the naturally occurring L-amino acids
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<222> (107)
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<400> 6013
Gln Leu Pro Val Gln Gly His Gly Leu Phe Gly Ala Gln Glu Val Leu
                                     10
Asn His Val Leu Arg Asp Ile Glu Leu Phe Met Gly Lys Leu Glu Lys
                                 25
Ala Gln Ala Lys Thr Ser Xaa Lys Lys Lys Phe Gly Lys Lys Asn Lys
                             40
Asp Gln Gly Gly Leu Thr Gln Ala Gln Tyr Ile Asp Cys Phe Gln Lys
                         55
Ile Lys His Ser Phe Asn Leu Leu Gly Arg Leu Ala Thr Trp Leu Lys
                                         75
Glu Thr Ser Ala Pro Glu Leu Val His Ile Leu Phe Lys Xaa Leu Asn
                 85
                                     90
Phe Xaa Leu Ala Arg Cys Pro Glu Ala Gly Xaa Ala Ala Gln Val Ile
            100
                                105
                                                    110
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<210> 6014
<211> 95
<212> PRT
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<213> Homo sapiens

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<222> (70)
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<222> (90)
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<220>
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<222> (93)
<223> Xaa equals any of the naturally occurring L-amino acids
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<221> SITE
<222> (94)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 6014
Leu Glu Glu Asp Ile Ser Lys Lys Met Asp Lys Asp Glu Glu Ala Leu
Lys Ala Ala Gln Ala Glu Leu Xaa Glu Ala Arg Arg Gln Trp His His
Leu Gln Val Glu Ile Glu Ser Leu His Ala Val Glu Arg Gly Leu Glu
                             40
Asn Ser Leu His Ala Xaa Glu Gln His Tyr Gln Met Gln Leu Gln Asp
     50
Leu Glu Thr Val Xaa Xaa Gly Leu Glu Lys Glu Leu Gln Xaa Val Lys
Xaa Xaa Xaa Lys Ala Ala Phe Lys Xaa Thr Xaa Xaa Xaa Phe
                 85
                                     90
<210> 6015
<211> 29
<212> PRT
<213> Homo sapiens
<400> 6015
Leu Arg Ala His Thr Val Arg His Glu Glu Lys Val Pro Cys His Val
                                     10
Cys Gly Lys Met Leu Ser Pro Ala Asp Pro Phe Asn Phe
             20
                                 25
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<210> 6016 <211> 53

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<212> PRT
<213> Homo sapiens
<400> 6016
Gln Gly Pro Thr Glu Val Lys Glu Gly Gly Trp Glu Cys Tyr Ser Leu
                                 10
Glu Trp Arg Cys Asp Phe Ser Arg Trp Lys Val Val Phe Leu Lys Gly
                                25
             20
Ile Gly Arg Ser Arg Phe Leu Leu Ile Gln Ile His Phe Pro Pro Thr
                    40
Glu Gly Arg Asn Tyr
    50
<210> 6017
<211> 29
<212> PRT
<213> Homo sapiens
<400> 6017
Pro Arg Val Val Phe His Leu Asn Leu His Pro Pro Pro Pro Gly Asp
                             10
                                                        15
Tyr Phe Glu Ile Asn Leu Arg His Gln Gly Gln Ala Gln
                                 25
             20
<210> 6018
<211> 78
<212> PRT
<213> Homo sapiens
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<220>

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<400> 6018
Ser Phe His Asn Thr Leu Ala Phe Pro Tyr Leu Tyr Gly Leu Tyr Leu
                                     10
Val Asn Leu Asn Lys Asn Leu Asp Phe Lys Lys Asn Trp Glu Arg Arg
             20
Xaa Val Ile Leu Leu Ala Phe Ser Ser Leu Asp Val Gly Ser His Asn
                             40
Ser Asn Ile Glu Gly Lys Phe Cys Phe Cys Lys Ile Gly Leu Lys Leu
Arg Ser Phe His Glu Arg Xaa Xaa Xaa Thr Cys Thr Ser Ala
 65
                     70
                                         75
<210> 6019
<211> 59
<212> PRT
<213> Homo sapiens
<400> 6019
Ser Ala Thr Cys Leu Phe Glu Val Leu Tyr Gln Ser Val Thr Arg Ala
                                     10
Phe Cys Val Cys Ala Ile Leu Cys Leu Ser Phe Lys Val Ala Pro Lys
             20
Val Ser His Leu Ala Phe Gln Gln Gly His Phe Leu Ser Phe Tyr Asn
                                                 45
Met Gln Tyr Ile Cys Asn Asp Leu Ala Phe Phe
                         55
<210> 6020
<211> 62
<212> PRT
<213> Homo sapiens
<400> 6020
Arg Ser His Ile Leu Leu Ser Gly Cys Phe Ser Ile Leu Cys Pro
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5283

10 15 1 Phe Pro Gln Gln Gln Val Gly Pro Arg Leu Cys Thr Ala Leu Arg Cys 25 20 Arg Trp Tyr Arg Asp Asn Cys Leu Asn Ser Cys Ala Asp Phe Cys Asn 40 Ser Ala Val Glu Thr Lys Val Leu Glu Ser Val Leu Ser Met 55 <210> 6021 <211> 216 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (39) <223> Xaa equals any of the naturally occurring L-amino acids <400> 6021 Ser Gly Gly Ser Ser Val His Leu Ser Asp Pro Val Ala Pro Ser Ser 10 5 Ala Gly Leu Tyr Phe Glu Pro Glu Pro Ile Ser Ser Thr Pro Asn Tyr 20 Leu Gln Arg Gly Glu Phe Xaa Ser Cys Val Ser Cys Glu Glu Asn Ser 40 Ser Cys Leu Asp Gln Ile Phe Asp Ser Tyr Leu Gln Thr Glu Met His 55 Pro Glu Pro Leu Leu Asn Ser Thr Gln Ser Ala Pro His His Phe Pro 65 70 Asp Ser Phe Gln Ala Thr Pro Phe Cys Phe Asn Gln Ser Leu Ile Pro 85 90 Gly Ser Pro Ser Asn Ser Ser Ile Leu Ser Gly Ser Leu Asp Tyr Ser Tyr Ser Pro Val Gln Leu Pro Ser Tyr Ala Pro Glu Asn Tyr Asn Ser 115 120 125 Pro Ala Ser Leu Asp Thr Arg Thr Cys Gly Tyr Pro Pro Glu Asp His 135 130

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Ser Tyr Gln His Leu Ser Ser His Ala Gln Tyr Ser Cys Phe Ser Ser
145
                                       155
Ala Thr Thr Ser Ile Cys Tyr Cys Ala Ser Cys Glu Ala Glu Asp Leu
                165
                                    170
Asp Ala Leu Gln Ala Ala Glu Tyr Phe Tyr Pro Ser Thr Asp Cys Val
            180
                                185
Asp Phe Ala Pro Ser Ala Ala Ala Thr Ser Asp Phe Tyr Lys Arg Glu
                            200
                                                205
Thr Asn Cys Asp Ile Cys Tyr Ser
    210
                        215
<210> 6022
<211> 43
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (29)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 6022
Ser Lys Arg Arg Asp Lys Lys Arg Gly Gly Val Gly Ser Arg Lys Gln
          5
                                    10
Ser Leu Asn Phe Ser Arg Thr Gln Leu Ser Leu Arg Xaa Asn Phe Leu
             20
                                 25
Leu Ser Leu Trp Asp Ala Ile Val Ile Phe Asn
         35
                             40
<210> 6023
<211> 55
<212> PRT
<213> Homo sapiens
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<222> (4)
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<221> SITE
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<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 6023
Pro Pro Cys Xaa Leu Arg Cys Val Xaa Glu Thr Gly Ser Asn Thr Thr
                                     10
 1
His Tyr Arg Glu Ser Trp Tyr Ala Cys Arg Tyr Arg Ser Gly Ile Pro
             20
Gly Ser Thr His Ala Ser Glu Ile Ser Trp Pro Tyr Phe Leu Ser Gly
                             40
Asn Leu Leu Thr Met Met Trp
     50
<210> 6024
<211> 83
<212> PRT
<213> Homo sapiens
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<221> SITE
<222> (34)
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<222> (43)
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<222> (48)
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<221> SITE
<222> (49)
<223> Xaa equals any of the naturally occurring L-amino acids
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<221> SITE
<222> (58)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 6024
Asp Ala Ile Lys Val Lys Glu Tyr Asn Asn Leu Leu Asn Ala Leu Gln
                                      10
  1
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5286

Met Asp Ser Asp Glu Met Lys Lys Ile Leu Ala Glu Asn Ser Arg Lys 20 25 30

Ile Xaa Val Leu Gln Val Asn Glu Lys Ser Xaa Ile Arg Gln Tyr Xaa 35 40 45

Xaa Leu Val Glu Leu Glu Arg Gln Leu Xaa Lys Glu Asn Glu Lys Gln 50 55 60

Lys Asn Glu Leu Leu Ser Met Glu Ala Glu Val Cys Glu Lys Ile Gly 65 70 75 80

Cys Leu Gln

<210> 6025

<211> 64

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6025

His Val Xaa Asp Val Ile Leu Glu Val Asn Gly Tyr Pro Val Gly Gly
1 5 10 15

Gln Asn Asp Leu Glu Arg Leu Gln Gln Leu Pro Glu Ala Glu Pro Pro 20 25 30

Leu Cys Leu Lys Leu Ala Ala Arg Ser Leu Arg Gly Leu Glu Ala Trp
35 40 45

Xaa Pro Pro Gly Ala Ala Glu Asp Trp Ala Leu Ala Ser Asp Leu Leu 50 55 60

5287

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<210> 6026
<211> 109
<212> PRT
<213> Homo sapiens
<220>
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<220>
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<222> (91)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (96)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (98)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 6026
Gly Ser Ser Leu Ala Gly Trp Leu His Xaa Pro Trp Ala Pro Gln
Ile Ile Lys Ser Thr Phe Ser Val Ser Gly Ile Cys Met Thr Ser Leu
                                                      30
             20
                                  25
Glu Val Pro Cys Trp Val Val Ile Leu Val Ser Asp Gly Thr His Leu
         35
                              40
Asn Leu Lys Tyr Phe Cys Gln Gly Ser Gly Gly Phe Met Ala Cys Ser
Ser Pro Ala Leu Leu Gly Arg Leu Gln Arg Cys His Leu Ala Leu Ser
                     70
                                          75
Pro Lys Asn Phe Glu Thr Gln Pro Gly Ala Xaa Arg Gly Leu Lys Xaa
                                      90
                                                          95
Ser Xaa Phe Pro Phe Lys Asn Tyr Gln Lys Ile Arg Pro
            100
                                 105
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<210> 6027

<211> 146

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<212> PRT
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<220>
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<222> (110)
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<221> SITE
<222> (144)
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<400> 6027
Arg Asp Glu Asn Thr Met Lys Asn Ile Phe Ser Lys Lys Arg Lys Leu
        5
                                   10
Glu Val Ala Cys Ser Asp Cys Glu Val Glu Val Leu Pro Leu Gly Leu
             20
Glu Thr His Pro Arg Thr Ala Lys Thr Glu Lys Cys Pro Pro Lys Phe
Ser Asn Asn Pro Lys Glu Leu Thr Met Glu Thr Lys Tyr Asp Asn Ile
                        55
Ser Arg Ile Gln Tyr His Ser Val Ile Arg Asp Pro Glu Ser Lys Thr
 65
                    70
                                        75
Ala Ile Phe Gln His Asn Gly Lys Lys Met Glu Phe Val Ser Ser Glu
                                     90
Ser Val Thr Xaa Glu Asp Asn Asp Gly Phe Lys Pro Pro Xaa Glu His
                               105
Leu Asn Ser Lys Thr Lys Gly Ala Gln Lys Asp Ser Ser Ser Asn His
       115
                            120
                                                125
Val Asp Glu Phe Glu Asp Asn Leu Leu Ile Gly Ile Gln Met Trp Xaa
  130
                       135
                                            140
Arg Tyr
145
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<210> 6028 <211> 222 <212> PRT <213> Homo sapiens
<220> <221> SITE <222> (37) <223> Xaa equals any of the naturally occurring L-amino acids
<220> <221> SITE <222> (221) <223> Xaa equals any of the naturally occurring L-amino acids
<pre><400> 6028 Lys Ala Pro Ala Ser Thr Cys Pro Arg Arg Pro Thr Gly Ala Ala Cys 1 5 10 15</pre>
Cys Val Asn Trp Arg Ser Pro Lys Gly Pro Gly Arg Pro Pro Gly Ser
Ala Pro Pro Thr Xaa Ala Gln Arg His Pro Leu Cys Ser Arg Asn Gln 35 40 45
Pro Pro Thr Leu Pro Arg Thr Arg Pro Gln Ser Pro Ala Ala Pro Ser 50 55 60
Thr Pro Thr Cys Gln Pro Ala Gly Ser Ser Ala Leu Trp Ser Pro Ser 65 70 75 80
Ser Thr Cys Leu Pro Ala Pro Ala Trp Val Pro Val Pro Pro Ser Pro 85 90 95
Arg Thr Trp Thr Met Arg Ala Val Ile Lys Pro Arg Leu Lys Met Lys 100 105 110
Met Arg Met Ser Ser Arg Met Lys Thr Arg Met Arg Thr Arg Met Arg 115 120 125
Met Glu Ser Arg Ala Ser Gln Ser Leu Glu Arg Arg Pro Arg Ser Ala 130 135 140
Thr Pro Trp Thr Trp Ala Thr Val Thr His His Glu Val Pro Thr Ser 145 150 155 160
His Ser Ile Pro Cys Ser Val Arg Val Ala Ala His His Thr Ser Pro 165 170 175
Cys Gln Glu Gln Glu Ser Pro Gln Ala Glu Cys Pro Arg Gly Ala Leu 180 185 190

Leu Arg Leu Ser Arg Glu Pro Val Lys Glu Ile Glu Ile Lys Pro Val 195 200 205

Leu Leu Gly His Arg Phe Ala Val Leu Lys Lys Lys Xaa Asn 210 215 220

<210> 6029

<211> 49

<212> PRT

<213> Homo sapiens

<400> 6029

Phe Val Glu Val Gly Met Ile Trp Gln Ser Leu Lys Phe Ile Leu Gly
1 5 10 15

Arg Arg Trp Gln Lys Ser Gly Val Tyr Gln Val Met Arg Phe Leu Leu 20 25 30

Thr His Gln Pro Asn Phe Cys Ser Phe Cys Thr Ser Glu Met Lys Lys
35 40 45

Arg

<210> 6030

<211> 73

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6030

Asp Thr Glu Ala Asp Val Leu Gly Leu Val Ala Ser Gly Thr Pro Asp 1 5 10 15

Val Ala Arg Ala Met Thr His Thr Leu Leu Arg His Leu Ala Ala Arg
20 25 30

Pro Pro Thr Gln Ala Gln His Gln Cys Pro Xaa Cys Leu Leu 35 40 45

Pro Leu Pro Gly Val Leu Thr Gly Trp Gly Trp Val Trp Gln Lys Ala
50 55 60

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Glu Leu Ser Glu Ala Trp Gly Gln Glu
                    70
<210> 6031
<211> 55
<212> PRT
<213> Homo sapiens
<400> 6031
Asn Asn Phe Tyr Ile Leu Tyr Phe Pro Thr Lys Gln Asn Arg Asp Gln
Tyr Ser His Leu Leu Ser Asp His Phe Leu Pro Tyr Gln Gly His Asn
                                25
             20
Ser Phe Arg Glu Lys Tyr Phe Ser Gly Val Thr Lys Arg Ile Ala Lys
                             40
                                                 45
         35
Glu Glu Lys Ser Thr Gln Glu
     50
<210> 6032
<211> 147
<212> PRT
<213> Homo sapiens
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<223> Xaa equals any of the naturally occurring L-amino acids
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<223> Xaa equals any of the naturally occurring L-amino acids
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5292

<400> 6032 Val Phe Arg Glu His Arg Xaa Ser Val Ile Cys Leu Glu Leu Val Asn 10 Arg Leu Val Tyr Xaa Gly Ser Xaa Asp Arg Thr Val Lys Cys Trp Leu 25 Ala Asp Thr Gly Glu Cys Val Xaa Thr Phe Thr Ala His Arg Arg Asn 40 Val Ser Ala Leu Lys Tyr His Ala Gly Thr Leu Phe Thr Gly Ser Gly 50 55 Asp Ala Cys Ala Arg Ala Phe Asp Ala Gln Ser Gly Glu Leu Arg Arg Val Phe Arg Gly His Thr Phe Ile Ile Asn Cys Ile Gln Val His Gly 90 Gln Val Leu Tyr Thr Ala Ser His Asp Gly Ala Leu Arg Leu Trp Asp 100 105 Val Arg Gly Leu Arg Gly Ala Pro Arg Ser Pro Pro Pro Met Arg Ser 115 120 Leu Ser Arg Leu Phe Ser Asn Lys Val Gly Cys Ala Val Ala Pro Leu 140 Gln Pro Ala 145 <210> 6033 <211> 70 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (34) <223> Xaa equals any of the naturally occurring L-amino acids <400> 6033 Gly Asn Arg Ala Arg Leu His Leu Lys Lys Arg Lys Asn Cys Asn - 10 Ser Tyr Thr Leu Ala Leu Leu Leu Tyr His Cys Val Ile Leu Lys Thr

25

Thr Xaa Ile Tyr Tyr Thr Gly Thr Cys Leu Leu Ser Ile Ser Thr Thr

5293

45 40 35 Lys Met Glu Ala Pro Thr Ala Ile Arg Leu Ile Ser Leu Pro Gly Pro 55 60 Ile Leu Ile Met Leu Leu <210> 6034 <211> 162 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (135) <223> Xaa equals any of the naturally occurring L-amino acids <400> 6034 Glu His Leu Glu Arg Met Leu Gly Gln Ala Gly Glu Arg Arg Ala Asp Val Tyr Val Gly Val Asp Val Phe Ala Arg Gly Asn Val Val Gly Gly 20 25 Arg Phe Asp Thr Asp Lys Ser Leu Glu Leu Ile Arg Lys His Gly Phe 35 Ser Val Ala Leu Phe Ala Pro Gly Trp Val Tyr Glu Cys Leu Glu Lys 55 Lys Asp Phe Phe Gln Asn Gln Asp Lys Phe Trp Gly Arg Leu Glu Arg 70 75 Tyr Leu Pro Thr His Ser Ile Cys Ser Leu Pro Phe Val Thr Ser Phe 95 90 Cys Leu Gly Met Gly Ala Arg Arg Val Cys Tyr Gly Gln Glu Ala 100 105 Val Gly Pro Trp Tyr His Leu Ser Ala Gln Glu Ile Gln Pro Leu Phe 120 Gly Glu His Arg Leu Gly Xaa Asp Gly Arg Gly Trp Val Arg Thr His 135 140 Cys Cys Leu Glu Asp Ala Trp His Gly Gly Ser Ser Leu Leu Val Arg 145 150 155

Gly Val

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<210> 6035
<211> 64
<212> PRT
<213> Homo sapiens
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<222> (15)
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<221> SITE
<222> (24)
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<221> SITE
<222> (27)
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<220>
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<400> 6035
Lys Tyr Tyr Thr Cys Glu Thr Asp Xaa Glu Asn Gln Cys Gly Xaa Gly
Val Val His Ile Asn Tyr Leu Xaa Ser Thr Xaa His Lys Ser Gln Ala
             20
                                 25
Cys Lys Ile Ser Gly Leu Ala Pro Glu Arg Gln Ile Pro His Asp Leu
         35
                             40
                                                  45
Thr Asp Met Xaa Xaa Leu Lys Lys Ser Asn Ser Glu Gln Arg Val Glu
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5295

50 55 60

<210> 6036 <211> 85 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (43) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (75) <223> Xaa equals any of the naturally occurring L-amino acids <400> 6036 Gly Val Leu His Phe Cys Gly Lys Ser Pro Phe Trp Arg Ser Ser Thr Gly Arg Phe Leu Gly Cys Tyr Asn Gln Asp Phe Ser Thr Thr Thr Leu 25 Leu Val Phe Gly Ala Arg Val Ile Leu Cys Xaa Trp Gly Gln Phe 35 40 Ile Val Gly Cys Phe Thr Ala Ser Ile Pro Leu Ser Tyr Ser Leu Gln 60 55 Gly Lys Thr Thr Lys Asn Val Pro Arg His Xaa Gln Ile Ser Pro Gly 75 Gly Gln Ser Phe Ile

<210> 6037
<211> 214
<212> PRT
<213> Homo sapiens
<400> 6037
Leu Ser Leu Arg Asn Ala Lys Tyr Ser Phe Pro Gln Glu Leu Ile Ser
1 5 10 15

5296

Leu Phe Ser Met Thr Asp Leu Asn Asp Asn Ile Cys Lys Arg Tyr Ile Lys Met Ile Thr Asn Ile Val Ile Leu Ser Leu Ile Ile Cys Ile Ser 40 Leu Ala Phe Trp Ile Ile Ser Met Thr Ala Ser Thr Tyr Tyr Gly Asn 55 Leu Arg Pro Ile Ser Pro Trp Arg Trp Leu Phe Ser Val Val Val Pro 65 70 Val Leu Ile Val Ser Asn Gly Leu Lys Lys Ser Leu Asp His Ser 85 Gly Ala Leu Gly Gly Leu Val Val Gly Phe Ile Leu Thr Ile Ala Asn 105 Phe Ser Phe Phe Thr Ser Leu Leu Met Phe Phe Leu Ser Ser Lys 115 120 125 Leu Thr Lys Trp Lys Gly Glu Val Lys Lys Arg Leu Asp Ser Glu Tyr 135 Lys Glu Gly Gln Arg Asn Trp Val Gln Val Phe Cys Asn Gly Ala 150 Val Pro Thr Glu Leu Ala Leu Leu Tyr Met Ile Glu Asn Gly Pro Gly 165 170 Glu Ile Gln Ser Ile Phe Pro Ser Ser Thr Pro Leu Pro Gly Cys Val 180 185 Cys Leu Ser Trp Leu His Trp Pro Ala Leu Leu Glu Thr His Gly Leu 200 205 Gln Lys Leu Ala Gln Phe 210 <210> 6038 <211> 65 <212> PRT <213> Homo sapiens <400> 6038 Phe Phe Tyr Asn Thr Lys Val Thr Trp Asn Phe Lys Asp Asn Val

5297

Met Cys Val Cys Glu Ile Tyr Ile His Ile Tyr Ile Tyr Phe Leu Lys 25 20 Glu Glu Lys Ile Pro Phe Cys Ser Thr Cys Ile Asn Ser Ser Phe Leu 40 Ile Ala Val Lys Trp Gln Leu Leu Ile Asn Tyr Cys Asp Cys Phe Lys 55 Ile 65 <210> 6039 <211> 55 <212> PRT <213> Homo sapiens <400> 6039 Lys Ala Gly Phe Arg Gln Ser Val His Phe Tyr Ser Lys Ile Gly Val 5 10 Ser Val Tyr Ile Tyr Leu Lys Leu Asn Arg Ser Asp Phe Tyr Phe Leu 20 25 Gly Tyr Ser Arg Ser Ile Leu Lys Leu Leu Phe Lys Ile Leu Lys Pro 40 His Phe Lys Ser Cys Arg Pro 50 55 <210> 6040 <211> 54 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (34) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (35) <223> Xaa equals any of the naturally occurring L-amino acids <400> 6040

Gln Leu Gln Ile Asn Arg Tyr Thr Pro Tyr Thr Ile Thr Asn Thr Phe

5298

1 10 15 Tyr Thr Val His Ile Ser Val His Gln His Tyr Phe Ile Tyr Thr Leu 20 25 Phe Xaa Xaa Ile Asn Ile Phe Leu Asn Trp Asp Tyr Cys Pro Tyr Ala 40 Leu Tyr Phe Leu Phe Gln 50 <210> 6041 <211> 77 <212> PRT <213> Homo sapiens <400> 6041 Leu Leu Thr Thr Trp Val Lys Gly Lys Arg Gln Met Ala Ser Lys Pro 5 Leu Val Cys Leu Ser Ser Gly Ser Glu Glu Ile Thr Ser Ala Phe Leu Pro Glu Glu Phe Gly Val Phe Lys Gly Gly Trp Gly Gly Cys His 40 Phe Glu Asn Met Leu Leu Phe Leu Leu Ile Val Leu Arg Leu Ile Trp 55 Lys Gly Tyr Phe Phe Leu Ala Asn Thr Phe Trp Tyr Phe 65 70 <210> 6042 <211> 218 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (133) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (202)

<223> Xaa equals any of the naturally occurring L-amino acids

<220 <221 <222 <223	> SI > (2 > Xa	(80	quals	s any	of	the	natu	ırall	Ly oc	curi	ing	L-an	nino	ació	ls
<221> SITE															
<222> (216) <223> Xaa equals any of						the	naturally occurring			ing	L-amino		acids		
<400> 6042							_								
			Met	Δla	Leu	Pro	Lvs	Asp	Ala	Tle	Pro	Ser	Leu	Ser	Glu
1		014		5			-1-		10					15	
Cys	Gln	Cys	Gly 20	Ile	Cys	Met	Glu	Ile 25	Leu	Val	Glu	Pro	Val 30	Thr	Leu
Pro	Суѕ	Asn 35	His	Thr	Leu	Cys	Lys 40	Pro	Cys	Phe	Gln	Ser 45	Thr	Val	Glu
Lys	Ala 50	Ser	Leu	Cys	Cys	Pro 55	Phe	Суѕ	Arg	Arg	Arg 60	Val	Ser	Ser	Trp
Thr 65	Arg	Туr	His	Thr	Arg 70	Arg	Asn	Ser	Leu	Val 75	Asn	Val	Glu	Leu	Trp 80
Thr	Ile	Ile	Gln	Lys 85	His	Tyr	Pro	Arg	Glu 90	Cys	Lys	Leu	Arg	Ala 95	Ser
Gly	Gln	Glu	Ser 100	Glu	Glu	Val	Ala	Asp 105	Asp	Tyr	Gln	Pro	Val 110	Arg	Lev
Leu	Ser	Lys 115	Pro	Gly	Glu	Leu	Arg 120	Arg	Glu	Tyr	Glu	Glu 125	Glu	Ile	Sei
Lys	Val 130	Ala	Ala	Xaa	Arg	Arg 135	Ala	Ser	Glu	Glu	Glu 140	Glu	Asn	Lys	Ala
Ser 145	Glu	Glu	Tyr	Ile	Gln 150	Arg	Leu	Leu	Ala	Glu 155		Glu	Glu	Glu	Gl: 160
Lys	Arg	Gln	Ala	Glu 165	Lys	Arg	Arg	Arg	Ala 170		Glu	Glu	Gln	Leu 175	Lys
Ser	Asp	Glu	Glu 180	Leu	Ala	Arg	Lys	Leu 185		Ile	Asp	Ile	Asn 190	Asn	Phe
Cys	Glu	Gly 195	Ser	Ile	Ser	Ala	Ser 200	Pro	Xaa	Glu	Phe	Gln 205		Asn	Ха
Val	Pro	Val	Thr	Pro	Lys	Ser	Xaa	Lys	Arg						

WO 01/22920

5300

210 215

<210> 6043

<211> 106

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6043

Trp Pro Gly Xaa Trp Thr Leu Ala Thr Glu Leu Leu His Arg Ala Trp

1 5 10 15

Cys Pro Gln Ala Ser Arg Leu Gly Leu Glu Pro Gly Met Ser Pro Gly
20 25 30

Ser Ala Leu Ala Leu Leu Trp Ser Leu Pro Ala Ser Asp Leu Gly Arg 35 40 45

Ser Val Ile Ala Gly Leu Trp Pro His Thr Gly Val Leu Ile His Leu 50 55 60

Glu Thr Ser Gln Ser Phe Leu Gln Gly Gln Leu Thr Lys Ser Ile Phe 65 70 75 80

Pro Leu Cys Cys Thr Ser Leu Phe Cys Val Cys Val Val Thr Val Gly 85 90 95

Gly Gly Arg Val Gly Ser Thr Phe Val Ala 100 105

<210> 6044

<211> 67

<212> PRT

<213> Homo sapiens

<400> 6044

Ile Pro Ala Pro Leu Tyr His Leu Phe Leu Pro Leu Lys Gly Lys Thr
1 5 10 15

Phe His Pro Ser Lys Leu Thr Ala Phe Ser Val Gly Phe Ser Tyr Ala 20 25 30

Leu His Thr Leu Asp Leu Thr Cys Arg Tyr Ser Ser Pro Leu Ala Arg

5301

45 35 40 Ser Ile Cys Met Trp Tyr Phe Ser Phe Pro Ser Val Asp Ile Ser Tyr 55 60 Met Ile Phe 65 <210> 6045 <211> 78 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (59) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (60) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (70) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (73) <223> Xaa equals any of the naturally occurring L-amino acids His Val Val Tyr Pro Arg Lys Leu Gly Arg Pro Leu Pro Ser Gln Ala 5 10 Leu Arg Asn Asn Phe Ser Cys Leu Pro Met Leu Ile Ile Leu Val Phe 20 25 Asn Ser Leu Ser Asp Leu Gln Asn Val Phe Ile Asn Ser Ser Cys Thr Trp Leu Asp Lys Leu Ser Cys Leu Cys Trp Xaa Xaa Asn Asp Tyr Leu 50 55 60 Leu Ile Tyr Phe Gly Xaa Asn Ile Xaa Lys Asn Ile Asn Lys 70 65

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<210> 6046
<211> 162
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (102)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 6046
Pro Tyr Arg Glu Ser Trp Tyr Ala Cys Arg Tyr Arg Ser Gly Ile Pro
Gly Ser Thr His Ala Ser Gly Arg Leu Ala Gly Arg Gly Ala Glu Ser
Gly Leu Pro Arg Arg Gly Thr Ser Tyr Ser Val Gly Glu Ala Met Glu
         35
                             40
Glu Leu Leu Pro Asp Gly Gln Ile Trp Ala Asn Met Asp Pro Glu Glu
Arg Met Leu Ala Ala Ala Thr Ala Phe Thr His Ile Cys Ala Gly Gln
Gly Glu Gly Asp Val Arg Arg Glu Ala Gln Ser Ile Gln Tyr Asp Pro
                                    90
Tyr Ser Lys Ala Ser Xaa Ala Pro Gly Lys Arg Pro Ala Leu Pro Val
            100
Gln Leu Gln Tyr Pro His Val Glu Ser Asn Val Pro Ser Glu Thr Val
                            120
                                                125
Ser Glu Ala Ser Gln Arg Leu Arg Lys Pro Val Met Lys Arg Lys Val
                        135
Leu Arg Arg Lys Pro Asp Gly Glu Val Leu Val Thr Asp Glu Ser Ile
145
                    150
                                        155
                                                            160
Ile Lys
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<210> 6047 <211> 48 <212> PRT

5303

<213> Homo sapiens

<400> 6047

Val Leu Cys Val Cys Val Cys Val Cys Val Cys Ala His Met Cys Thr
1 5 10 15

Leu Val Leu Val Pro Asn Ser Cys Ser Pro Gly Asp Pro Leu Val Leu 20 25 30

Glu Arg Pro Pro Pro Arg Trp Ser Thr Ser Phe Val Pro Leu Val Arg 35 40 45

<210> 6048

<211> 74

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6048

Asn Val Lys Lys His Ile Tyr Leu Tyr Ile Asp Phe Lys Gln Asn Thr 1 5 10 15

Leu Asn Thr Leu Leu Ser Val Arg Leu Met Xaa Ala Glu Glu Phe Tyr
20 25 30

Trp Val Glu Lys Thr Val Ile Tyr Ile Val Leu Asn Val Phe Ile Ile 35 40 45

Asn Gly Cys Ser Ile Ile Ser Ile Leu Phe Ser Ala Ser Asn Gly Met 50 55 60

Ile Ile Arg His Phe Ser Leu Leu Ile Ser 65 70

<210> 6049

<211> 45

<212> PRT

<213> Homo sapiens

<400> 6049

5304

Phe Ile Lys Trp Val Ile Ile His Thr Asn Ala Lys Leu Ser Ile Tyr Tyr Ile Lys Ile Phe Asn Val Leu Ala Asn Phe Gly Lys Ala Lys Thr 20 Thr Ser Val Asn Lys Asp Gly Phe Leu Val Ile Cys His 35 40 <210> 6050 <211> 62 <212> PRT <213> Homo sapiens <400> 6050 Gly Glu Thr Ser Gly Leu Leu Cys Ser Gly Lys Thr Arg Asp Ala His 5 10 15 Tyr Cys Glu Gly Pro Leu Lys Ser Gly Leu Leu Asn Gly Phe Leu Leu 20 25 Ile Ser Trp Val His Ala Arg Met Met Gly Leu Asp Ala Val Gly Lys Arg Arg Cys Lys Asn Asn Lys Gln Tyr Ile Pro Ser Lys Lys 50 55 <210> 6051 <211> 59 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (2) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (22) <223> Xaa equals any of the naturally occurring L-amino acids <400> 6051

Gln Xaa Cys Lys Asn Ile Gln Lys Ser Arg Thr Ile Gly Leu Ser Phe

Gln Ser Lys Ser Lys Xaa Ser Cys Phe His Phe Thr Arg Leu Trp Lys

10

PCT/US00/26524 WO 01/22920

5305 30 20 25 Pro Met Asp Val Ile Val Lys Cys Ile Cys Ile Thr Leu Thr Phe Leu 40 45 Lys Cys Phe Glu Leu Ile Lys Asn Ser Thr Met 55 <210> 6052 <211> 51 <212> PRT <213> Homo sapiens <400> 6052 Asp Thr Phe Asn Pro Val Asn Phe Phe Ser Val Ser Asp Lys Val Lys 10 5 Phe Ser Ser Arg Val Gln Asn Thr Phe Ile Tyr Phe Phe Val Phe Leu Lys Val Gln Arg Thr Thr Leu Ile Asn Leu Ser Phe Pro Ala Thr Trp 40 45 Asn Ser Thr 50 <210> 6053 <211> 89 <212> PRT

<213> Homo sapiens <220> <221> SITE <222> (14) <223> Xaa equals any of the naturally occurring L-amino acids

5

Lys Leu Leu Ser Pro Leu Asn Gly Leu Gly Pro Leu Val Xaa Ser His

10

Cys Ser Ile Arg Val Ser Leu His Leu Trp Ala Leu Leu Ser Cys Asp 20 25

Ser Arg Asn Val Leu Leu Ile His Phe Met Val Asp His Pro Leu Ala

Leu Ser Thr Leu Pro Leu Phe Ser Ser Ala Pro His Arg Ile Ile Ser

5306 50 55 60 Ile Val Ser Val Ser Ser Leu Leu Ile Leu Tyr Ser Ala Cys Ser Asp 70 75 Leu Pro Val Asn Pro Leu Val Asn Leu 85 <210> 6054 <211> 92 <212> PRT <213> Homo sapiens <400> 6054 Ile Ser Gly Asp Lys His Leu Lys Lys Val Gln Leu Thr Leu Glu Gln 10 His Glu Ser Glu Leu Cys Val Gly Leu Leu Thr Gly Arg Phe Phe 20 25 Ser Ile Ser Ile Leu Glu Asn Phe Leu Glu Ile Phe Gly Asn Leu Lys 35 45 Lys Leu Ala Asn Tyr Ser Leu Glu Ile Ser Glu Val Lys Lys Leu 55 Val Cys His Arg Cys Ile Lys Leu Thr Met Ser Ile Leu Val His Phe 75 Ile Ile Tyr Tyr His Lys Ile Tyr Thr Ser Phe Phe 85 90 <210> 6055 <211> 48 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (10) <223> Xaa equals any of the naturally occurring L-amino acids

<220> <221> SITE

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<220>
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<222> (29)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 6055
Thr Glu Lys Glu Met Lys Ile Asp Gln Xaa Glu Lys Gly Leu Val Xaa
Lys Gly Xaa Lys Gly Arg Ser Leu Trp Asn Xaa Xaa Xaa Leu Lys Asn
                                  25
Glu Val Thr Pro Asn Asn Arg Thr Gly Gln Ser Glu Met Thr Trp Leu
                                                  45
                              40
         35
<210> 6056
<211> 55
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids
Lys Ser Ser Ile Xaa Pro Pro Leu Ile Phe Pro Ala Thr Asp Ile Asp
                                      10
                   5
Arg Ile Leu Arg Ala Gly Phe Thr Leu Gln Glu Ala Leu Gly Ala Leu
              20
                                  25
```

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His Arg Val Gly Gly Asn Ala Asp Leu Ala Leu Leu Val Leu Leu Ala
                                                  45
Lys Asn Ile Val Val Pro Thr
     50
<210> 6057
<211> 56
<212> PRT
<213> Homo sapiens
<400> 6057
Ser Gln Leu Leu Gly Arg Leu Arg Gln Glu Asn His Leu Asn Pro Gly
                  5
                                     10
Gly Arg Gly Cys Ser Glu Pro Arg Ser His His Cys Thr Pro Ala Trp
Ala Thr Arg Ala Lys Leu His Leu Lys Lys Thr His Ile Phe Met Asn
                             40
Ile Ser His Gln Gln Cys Arg Lys
     50
<210> 6058
<211> 113
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (98)
<223> Xaa equals any of the naturally occurring L-amino acids
Glu Glu Thr Trp Leu Leu Ala Leu Ile Asn Glu Glu Ser His Phe Pro
                  5
                                                         15
Gln Ala Thr Asp Ser Thr Leu Leu Glu Lys Leu His Ser Gln His Ala
             20
                                 25
Asn Asn His Phe Tyr Val Lys Pro Arg Val Ala Val Asn Asn Phe Gly
                             40
```

Val Lys His Tyr Ala Gly Glu Val Gln Tyr Asp Val Arg Gly Ile Leu

55

5309

Glu Lys Asn Arg Asp Thr Phe Arg Asp Asp Leu Leu Asn Leu Leu Arg 65 70 75 80

Glu Ser Arg Phe Asp Phe Ile Tyr Asp Leu Phe Glu His Val Ser Lys 85 90 95

Pro Xaa Gln Pro Gly Tyr Leu Glu Met Trp Glu Pro Thr Ser Ala Ala 100 105 110

Tyr

<210> 6059

<211> 44

<212> PRT

<213> Homo sapiens

<400> 6059

Ala Phe Ile Tyr Leu Asn Phe Glu Phe Leu Asn Phe Leu Val Lys Asn 1 5 10 15

Gln Asp Lys His Thr Ser Leu Gly Leu Cys Arg Val Arg Ile Lys Thr 20 25 30

Ser Leu Ala Gly Asp Arg Asn Phe Ser Thr Pro Leu 35 40

<210> 6060

<211> 59

<212> PRT

<213> Homo sapiens

<400> 6060

Ala Asp Tyr Pro Thr Val Gly Thr Lys Leu Asp Ser Tyr Phe Val Gly
1 5 10 15

Leu Ser Phe Leu Ile Leu Thr Ile Tyr His Pro Ile Leu Cys Pro Val 20 25 30

Ile Phe Phe Lys Ser Leu Phe Asn Val Leu Gln His Cys Asp Cys Met
35 40 45

Leu Ala Thr Leu Leu Leu Glu Cys Ser Phe Ser 50 55

```
<210> 6061
<211> 51
<212> PRT
<213> Homo sapiens
<400> 6061
Trp Val Asn Leu Arg Phe Gln Ser Gln Lys Leu Gln Val Val Thr
                                     10
Phe Leu Ser Ala Trp Ile Lys Pro Leu Lys Cys Gly Lys Cys Gln
             20
                                 25
Ser Arg Ala Ile Ser Leu Leu Ser Ser Met Arg Gly Ile Glu Thr Lys
                             40
Gln Gln Phe
     50
<210> 6062
<211> 73
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (17)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (46)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (52)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 6062
Lys Leu Thr Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser Thr Ala Val
                  5
                                     10
Xaa Thr Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala
             20
                                 25
Arg Gly Gly Val Ser Ser Leu Lys Leu Arg Thr Ile Phe Xaa Val Ala
         35
                             40
                                                 45
```

5311

Lys Leu His Xaa Met Met Leu Pro Leu Leu Ser Val Leu Ser Gly Pro 50 55 60

Leu Phe Thr Ser Thr Arg Tyr Pro Ser 65 70

<210> 6063

<211> 59

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6063

Arg Gly Asn Arg Cys Leu Thr Lys Arg Glu Ala Ile Arg Gly Ile Asp 1 5 10 15

Glu Ala Gln Leu Lys Ser Ser Leu Ala Ser Ser Ser Leu Ala Ser Val 20 25 30

His Leu Lys Asn Lys Ser Trp Leu Thr Val Gly Ser Thr Arg Phe Glu 35 40 45

Ile Arg Trp Leu Tyr Phe Xaa Phe Phe Gly Ile 50 55

<210> 6064

<211> 66

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6064

Thr Xaa Met Phe Gln Gln His Arg Phe Ile Cys Asn His Lys Ser Asp 1 5 10 15

Thr Phe Arg Met Thr Lys Pro Gln Lys Asn Ala Ile Phe Lys Ala Glu 20 25 30

Thr Val Leu Phe Trp Ala Lys Trp Asn Pro Cys Phe Ser Asp Thr Val

5312

35 40 45 Arg Val Glu Ile Lys Asp Thr Glu Asn Leu Pro Leu Gly Asn His Asn 55 60 Tyr Leu 65 <210> 6065 <211> 46 <212> PRT <213> Homo sapiens <400> 6065 Lys Arg Gln Leu Glu Asn Val Met His Gly Val Phe Lys Lys Thr Lys 10 Cys Ser Phe Tyr Leu Thr Asp Asn Ser Phe Tyr Thr Leu Tyr Asn Lys 20 25 Ile Ser Thr Arg His Leu Val Gly Lys Val Lys Lys Lys 40 45 <210> 6066 <211> 136 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (10) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (13) <223> Xaa equals any of the naturally occurring L-amino acids <220> <221> SITE <222> (76) <223> Xaa equals any of the naturally occurring L-amino acids <400> 6066 Arg Gly Leu Pro Ser Ile Pro Glu Asn Xaa Asn Leu Xaa Glu Tyr Phe

10

5313

Val Ala Val Asp Val Asn Asn Met Leu His Leu Tyr Ala Ser Met Leu 20 25 30

Tyr Glu Arg Arg Ile Leu Ile Ile Cys Ser Lys Leu Ser Thr Leu Thr 35 40 45

Ala Cys Ile His Gly Ser Ala Ala Met Leu Tyr Pro Met Tyr Trp Gln 50 55 60

His Val Tyr Ile Pro Val Leu Pro Pro His Leu Xaa Asp Tyr Cys Cys 65 70 75 80

Ala Pro Met Pro Tyr Leu Ile Gly Ile His Leu Ser Leu Met Glu Lys 85 90 95

Val Arg Asn Met Ala Leu Asp Asp Val Val Ile Leu Asn Val Asp Thr
100 105 110

Asn Thr Leu Glu Thr Pro Phe Asp Asp Leu Gln Ser Leu Pro Asn Asp 115 120 125

Val Glu Glu Ser Ile Val Ile Gln 130 135

<210> 6067

<211> 74

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6067

His Phe Ala Ala Tyr Gly Asn Val Cys Val Leu Phe Ile Leu Met Asn 1 5 10 15

Cys Ala Met Thr His Lys Pro Lys Gln Cys Gln Leu Gln Leu Asn Leu 20 25 30

Gly Arg Asn Pro Trp Cys Phe Xaa Phe Phe Phe Asp Ala Gly Glu Arg

Leu His Phe Val Thr Asn Leu Leu Pro Asn Arg Lys Ile Tyr Phe Leu 50 55 60

Ser Asp Arg His His Thr Arg Cys Leu Leu
65 70

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<210> 6068
<211> 86
<212> PRT
<213> Homo sapiens
<400> 6068
Gly Lys Pro Gly Ala Pro Leu Gln Pro Trp Asp Asn Leu Arg Ile Pro
Pro Glu Ala Ser Ser Val Met Asp Ala Val Leu Arg Ile Thr Cys Cys
             20
                                  25
Pro Gly Val Thr Cys Phe His Leu Pro Ala His Gln Pro Ser Ala His
                              40
Leu Thr Cys Leu Pro Met Asp Trp Gly Leu Pro Gly Pro Pro Pro Tyr
Val Asn Leu His Phe Leu Phe Lys Asn Gln Glu Lys Lys Arg Phe Glu
 65
                     70
                                          75
Asp Pro Lys Ser Cys Gln
                 85
<210> 6069
<211> 82
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (47)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (50)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (76)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 6069
Leu Glu Gly Arg Ala Leu Leu Gln Val Arg Val Gly Val Leu Ser Glu
```

5315

1 10 15 Ser Cys Val Leu Gly Leu Val Ser Phe Pro Cys Pro Cys Ser Gly Ser 25 20 Val Arg Gln Ile Gly Arg Leu Cys Ser Arg Pro Gln Glu Cys Xaa Ser 40 Pro Xaa Leu Ala Gln Tyr Ile Gly Thr Cys Gly Phe Tyr Phe Val Phe Asp Val Pro Asp Arg Asn Arg Ala Arg Gly Thr Xaa Lys Thr Thr Val 70 75 Gly Ser <210> 6070 <211> 50 <212> PRT <213> Homo sapiens <400> 6070 Ser Lys Glu Arg Val Asp Gly Leu Lys Arg Leu Ala Ser Val Ser Val 5 10 Ala Gly Ser His Leu Ala Ser Asn Trp Lys Gln Asn Phe Trp Gly Val 25 Leu Phe Cys Ile Arg Val Cys Phe Met Leu Ser Lys Thr Tyr Phe Arg 40 Ser Lys 50 <210> 6071 <211> 51 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (15) <223> Xaa equals any of the naturally occurring L-amino acids <400> 6071 Trp Lys Leu Val Gly Pro Pro Gly Leu Thr Gly Ile Arg Thr Xaa Gly

```
1
                  5
                                      10
                                                          15
Lys Asn Phe Val Arg Pro Gln Lys His Cys Thr Val Asn Ile Leu Glu
             20
                                  25
Lys Val Cys Gln Thr Gly Ile Asn Asp Ser Met Ile Phe Asn Asp Cys
                              40
Lys Leu Arg
     50
<210> 6072
<211> 52
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (29)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (47)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (52)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 6072
Lys Ser Met Gly Glu Glu Asn Val Lys Met Leu Ser Asp Ile Arg Cys
                                      10
Met Lys Ser His Asn Ile Lys Ala Ile Ser Tyr Phe Xaa Arg Gly Ile
                                  25
Phe Leu Leu Pro Leu Leu Val Leu Asp Arg Phe Tyr Lys Met Xaa Asn
         35
                              40
                                                  45
Lys Ile Trp Xaa
     50
<210> 6073
<211> 102
<212> PRT
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<213> Homo sapiens
<220>
<221> SITE
<222> (50)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (58)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 6073
Glu Ser Ser Ile Cys Cys Ser Phe Leu Gln Leu Tyr Phe Cys Ser Ile
Ser Trp Phe His Ser Leu Leu Phe Trp Asp Phe Val Phe Arg Ser Ala
Tyr Phe Leu Tyr Ile Cys Met Gln Met Lys Glu Gly Ser Leu Tyr Trp
                             40
Cys Xaa Phe Ser Leu Gln Leu Leu Val Xaa Gly Asp Leu Leu Glu Lys
     50
                         55
Ile Leu Pro Leu Lys Gly Glu Asn Arg Pro Leu Cys Val Tyr Leu Tyr
                     70
Arg Asp Val Tyr Met Gly Cys Gly Gly Thr Leu Leu Asn Val Asn Leu
                                     90
Pro Cys Gln Trp Lys Asp
            100
<210> 6074
<211> 37
<212> PRT
<213> Homo sapiens
<400> 6074
Leu Phe Gly Ala Val Arg Lys Lys Lys Lys Lys Ile Ala Ile Ser
                                    10
Ser Cys Val His Asn Ser Arg Tyr Asn Ile Gln Ser Leu Glu Gly Pro
                                                      30
             20
                                 25
Phe Trp Ala Leu Asp
         35
```

```
<210> 6075
<211> 37
<212> PRT
<213> Homo sapiens
<400> 6075
Tyr Ser Phe Asp Asn Thr Arg Val Ser Glu Ile Pro Asp Thr Ser Val
Gln Asn Ala Met Asp Leu Leu Phe Tyr Ser Cys Gln Pro Phe Ser Ile
                                 25
Pro Ile Gln Lys Arg
        35
<210> 6076
<211> 73
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (48)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 6076
Thr Leu Ser Asp Val Gly Cys Pro His Gln Asn Ile Cys Thr Ser Cys
Phe Cys Pro Thr Leu Glu Ala Ala Glu Lys Lys Gly Lys Gln Gly Ser
             20
Arg Asn Leu Cys Tyr Val Phe Ser Pro Leu Tyr Leu Phe Leu Trp Xaa
                             40
Val Val Gln Glu Ile Leu Phe Ser Cys Ser Lys Leu Ile Lys Arg Ser
Asn Ile Arg Asn Tyr Asp Asn Ser Leu
 65
                     70
<210> 6077
<211> 49
<212> PRT
<213> Homo sapiens
```

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<220>
<221> SITE
<222> (46)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 6077
Tyr Arg Gly Arg Glu Ile Ser Lys Val Phe Thr Ser Ser Leu Lys Gly
                                     10
Val Gly Ser Asn Ser Ser Pro Cys Tyr Phe Gly Val Ser His Tyr
                                 25
Ser Leu Thr His Gln Lys Ile His Ser Phe Lys Cys Leu Xaa Val Leu
                             40
                                                 45
Ser
<210> 6078
<211> 38
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (26)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (30)
<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 6078
Pro Asn Ala Asp Gln Lys Tyr Ser Thr Asp Lys Met Xaa Glu Pro Xaa
                  5
                                     10
Val Tyr Val Lys Ser Leu Tyr Thr Xaa Xaa Gly Pro Asp Xaa Tyr Phe
             20
                                 25
Leu Leu Ile Gly Gly
         35
<210> 6079
<211> 303
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (14)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (118)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (147)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 6079
Ala Phe Ser Ser Glu Asp Asn Lys Xaa Gly Lys Arg Xaa Arg Thr
                  5
Asn Ser Arg Ser Thr Pro Thr Thr Pro Gln Gly Lys Pro Glu Thr Thr
             20
                                 25
Phe Leu Asp Gln Gly Cys Ser Ser Pro Val Leu Ile Asp Cys Pro His
                             40
Pro Asn Cys Asn Lys Lys Tyr Lys His Ile Asn Gly Leu Arg Tyr His
     50
                         55
Gln Ala His Ala His Leu Asp Pro Glu Asn Lys Leu Glu Phe Glu Pro
```

Asp Ser Glu Asp Lys Ile Ser Asp Cys Glu Glu Gly Leu Ser Asn Val Ala Leu Glu Cys Ser Glu Pro Ser Thr Ser Val Ser Ala Tyr Asp Gln Leu Lys Ala Pro Ala Xaa Pro Gly Ala Gly Asn Pro Pro Gly Thr Pro Lys Gly Lys Arg Glu Leu Met Ser Asn Gly Pro Gly Ser Ile Ile Gly Ala Lys Xaa Gly Lys Asn Ser Gly Lys Lys Lys Gly Leu Asn Asn Glu Leu Asn Asn Leu Pro Val Ile Ser Asn Met Thr Ala Ala Leu Asp Ser Cys Ser Ala Ala Asp Gly Ser Leu Ala Ala Glu Met Pro Lys Leu Glu Ala Glu Gly Leu Ile Asp Lys Lys Asn Leu Gly Asp Lys Glu Lys Gly Lys Lys Ala Asn Asn Cys Lys Thr Asp Lys Asn Leu Ser Lys Leu Lys Ser Ala Arg Pro Ile Ala Pro Ala Pro Ala Pro Thr Pro Pro Gln Leu Ile Ala Ile Pro Thr Ala Thr Phe Thr Thr Thr Thr Gly Thr Ile Pro Gly Leu Pro Ser Leu Thr Thr Thr Val Val Gln Ala Thr Pro Lys Ser Pro Pro Leu Lys Pro Ile Gln Pro Lys Pro Thr Ile Met Gly Glu Pro Ile Thr Val Asn Pro Ala Leu Val Ser Leu Lys Asp Lys Lys . . • <210> 6080 <211> 61

<212> PRT

<213> Homo sapiens

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<220>
<221> SITE
<222> (49)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 6080
Arg Leu Ser Gln His Pro Tyr His Thr Val Gln Lys Ser Glu Leu Gln
Arg Leu Cys Ser Val Ser Trp Ser Thr Ser Lys Phe Val Val Arg Lys
             20
                                 25
Val Arg Cys Arg Asn Leu Arg Leu Gln Arg Leu Cys Ser Val Ser Trp
         35
Xaa Thr Ser Thr Phe Phe Val Val Asn Ile Gln Ser His
                         55
<210> 6081
<211> 77
<212> PRT
<213> Homo sapiens
<400> 6081
Pro Asn Pro Ala Leu Thr Ala Pro Gln Arg Ile Pro Val Ala Ala Gln
                  5
Pro Pro Ala Pro Pro Ser Pro Glu Leu Arg Arg Glu Pro Gln Gly Gly
             20
                                 25
Ala Met Arg Thr Gly Val Trp Trp Ser Thr Tyr Gly Ser Trp Pro Ala
Ser Gly Ala Val Ala Gly Arg Pro Leu Ala Phe Ser Asp Ala Gly Pro
     50
                         55
His Val His Tyr Gly Trp Gly Asp Pro Ile Arg Leu Arg
 65
                     70
<210> 6082
<211> 44
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
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<222> (22)

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<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (33)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 6082
Thr Ala Gly Pro Ser His Pro Trp Ile Ser Ser Cys Thr Thr Leu Lys
                  5
                                                          15
Leu Glu Gln His Gln Xaa Leu Pro Arg Ser Pro Pro Ala Gln Pro Ser
                                  25
             20
Xaa Gly Asn Val Ser Ser Ser Pro Gly Leu Gln Leu
                             40
         35
<210> 6083
<211> 52
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (41)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 6083
Ala Glu Gly His Glu Arg Glu Arg Ser Xaa Glu Ser Gly Glu Glu Asp
Ser Ser Leu Thr Asp Glu Pro Arg Arg Ala Cys Leu Ser His Pro Ser
              20
Leu Cys Gln Leu Leu Gly Gly Gln Xaa Pro Ala Leu Arg Asn Ser Pro
                                                   45
         35
                              40
Val Leu Gly Glu
     50
 <210> 6084
<211> 78
```

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<212> PRT
<213> Homo sapiens
<400> 6084
Leu Val Leu His Tyr Phe Pro Arg Glu Phe Leu Gln Val Asn Val His
Pro Phe Asp Leu Glu Ala Asp Ser Gln Phe Cys Leu Phe Gly Lys Ser
Ala Ser Glu Leu Asn Phe Leu Val Cys Lys Met Gly Leu Arg Lys Cys
         35
                              40
                                                  45
Gly Leu Leu Phe Gln Arg Leu Leu Leu Gly Trp Asn Glu Ile Met Cys
Val Thr Lys Ala Leu Glu Thr Phe Trp Asn Leu Lys Ala Ile
                     70
<210> 6085
<211> 67
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (45)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (51)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 6085
Ala Leu Ser Val Cys Asp Leu Leu Lys Asn Lys Phe Phe Val Lys Glu
                  5
                                    10
Asn Thr Ser Leu Lys Asn Glu Lys Ala Ile Leu Ser Leu Ile Asn Leu
             20
Ile Gln Asp Pro Ser Ile Ile Asn Leu Thr Val Leu Xaa Phe Thr Glu
         35
                                                  45
Ile Ser Xaa Asn Gln Ser Gln Lys Ile Pro Pro Cys Thr Asn Leu Leu
                         55
                                              60
Pro Leu His
 65
```

5325

```
<211> 61
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (31)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (44)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (48)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (55)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 6086
Leu Arg Ile Met Thr Pro Leu Val Ser Cys Gly Met Gly Arg Ile Phe
                  5
                                      10
Tyr Phe Phe Cys Thr Phe Thr Trp Arg Leu Phe Leu Leu Arg Xaa Phe
                                                      30
             20
                                  25
Ile Met Gly Phe Lys Ala Leu His Leu Pro Asn Xaa Gly Lys Cys Xaa
                             40
Lys Tyr Cys Ile Phe Tyr Xaa Phe Gly Pro Lys Gly Tyr
<210> 6087
<211> 50
<212> PRT
<213> Homo sapiens
<400> 6087
Asn Glu Glu Cys Asn Pro Phe Tyr Lys Met Tyr Thr Leu Cys Tyr Leu
                                      10
```

<210> 6086

5326

Leu Leu Asn Phe Gly Leu Val Ile Pro Thr Asp Ala Lys Phe Phe Leu 20 25 30

Gln Ser Thr Glu Ile Ile Gln Ile Phe Leu His Cys Gln Gln Asp Glu 35 40 45

Ile Val

<210> 6088

<211> 141

<212> PRT

<213> Homo sapiens

<400> 6088

Trp Lys Lys Tyr Phe Lys Thr Phe Ile Asn Gly Lys Val Val Trp Gly
1 5 10 15

Ser Trp Phe Asp His Val Lys Gly Trp Trp Glu Met Lys Asp Arg His 20 25 30

Gln Ile Leu Phe Leu Phe Tyr Glu Asp Ile Lys Arg Asp Pro Lys His 35 40 45

Glu Ile Arg Lys Val Met Gln Phe Met Gly Lys Lys Val Asp Glu Thr 50 55 60

Val Leu Asp Lys Ile Val Gln Glu Thr Ser Phe Glu Lys Met Lys Glu 65 70 75 80

Asn Pro Met Thr Asn Arg Ser Thr Val Ser Lys Ser Ile Leu Asp Gln 85 90 95

Ser Ile Ser Ser Phe Met Arg Lys Gly Thr Val Gly Asp Trp Lys Asn 100 105 110

His Phe Thr Val Ala Gln Asn Glu Arg Phe Asp Glu Ile Tyr Arg Arg 115 120 125

Lys Met Glu Gly Thr Ser Ile Asn Phe Cys Met Glu Leu 130 135 140

<210> 6089

<211> 65

<212> PRT

<213> Homo sapiens

5327

<400> 6089

Asn Lys His Leu Glu Ala Ile Phe Gly Leu Ile Lys Ile Val Leu Gly
1 5 10 15

Arg Ala Trp Trp Leu Thr Pro Ala Ile Pro Ala Leu Trp Glu Ala Glu 20 25 30

Asp Ser Gly Phe Leu Glu Leu Arg Ser Trp Glu Thr Ser Leu Gly Asn 35 40 45

Met Val Ile Pro Val Cys Leu Phe Lys Ile Lys Lys Ile Asn Glu Val 50 55 60

Met

65

<210> 6090

<211> 85

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6090

Val Ala Lys Gly Leu Leu Ser His Leu Cys Pro Pro Xaa Ile Leu Lys 1 5 10 15

Ala Arg Ser Leu Glu Phe Glu Leu Cys Pro His Met Pro Pro Arg His 20 25 30

Gln Gln Ser Lys Met Lys Ser Leu His Cys Leu Ser Val Asp Pro Thr
35 40 45

Leu Ser Pro His Trp Arg Gly Arg Gly Gly Leu Arg Met Ser Ser 50 55 60

Ser Cys Pro Gly Cys Asn Met Val Lys Asp Glu Arg Lys Glu Met Leu 65 70 75 80

Gly Ala Ser Leu His

85

<210> 6091

```
<211> 90
<212> PRT
<213> Homo sapiens
<400> 6091
Gln Glu Pro Ser Ser Arg Val Ser Cys Phe Lys Ala Pro Tyr Pro Phe
                                    10
Leu Arg Val Thr Asn Thr Cys Ala Arg Ser Leu Pro Phe Pro Ser Ser
                                 25
Pro Cys Ile Trp Leu Ile Thr Gly Gln Leu Pro Ala Ser Leu Gln Phe
                             40
Gly Arg Trp Val Gly Asn Asp His His Ser Pro Arg Ser Pro Asp Gly
Leu Val Phe Arg Ala Leu His Arg His Leu Gln Gln Ala Pro Ala Arg
65
                     70
Pro Glu Val Ile Leu Arg Arg Asp Gly Ser
                85
<210> 6092
<211> 45
<212> PRT
<213> Homo sapiens
<400> 6092
Leu Gln Leu Trp Ile Ala Tyr Phe Glu Lys Gly Glu Leu Gln Ile Leu
Pro Lys Asp Gly Glu Lys His Ile Lys Lys Ile Pro Thr Phe Arg Asn
Ser Phe Gln Gln Leu Leu Glu Ile Phe Lys Leu Ile
                             40
```

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<211> 49
<212> PRT
<213> Homo sapiens
<400> 6093

Ile Ser Asp Lys Phe Pro Gly Asn Ala Asp Phe Thr Val Gln Gly Pro
1 5 10 15
```

<210> 6093

5329

His Phe Gly Asn His Thr Asn Arg Asn Leu Met Gln Thr Gln Gly Thr
20 25 30

Tyr Gln Lys Ile Phe Asn Gln Val Ile Leu His Asp Lys Gly Gln Gln 35 40 45

Cys

<210> 6094

<211> 58

<212> PRT

<213> Homo sapiens

<400> 6094

Thr Gly Phe His His Val Ser Gln Ala Ser Leu Glu Leu Leu Thr Ser 1 5 10 15

Gly Asp Pro Pro Ala Ser Ala Ser Gln Ser Ala Gly Ile Thr Gly Ile
20 25 30

Ser His Arg Ala Trp Pro Asn Asn Trp Asn Ile Phe Ile Met Lys Met 35 40 45

Ser Ser Ala Leu Pro Lys Glu Thr Thr Asn 50 55

<210> 6095

<211> 89

<212> PRT

<213> Homo sapiens

<400> 6095

Cys Lys His Cys Ile Ser Tyr Val Glu Met Val Lys Asp Asp Tyr Glu

1 10 15

Asp Asp Ser His Val Phe Arg Lys Pro Ala Asn Asp Ile Thr Ser Gln 20 25 30

Leu Glu Ile Asn Phe Gly Asn Leu Pro Arg Pro Gly Arg Gly Ala Arg
35 40 45

Gly Gly Thr Arg Gly Gly Arg Gly Arg Ile Arg Arg Ala Glu Asn Tyr 50 55 60

Gly Pro Arg Ala Glu Val Val Met Gln Asp Val Ala Pro Asn Pro Asp 65 70 75 80

Asp Pro Glu Asp Phe Pro Ala Leu Ser 85

<210> 6096 <211> 32 <212> PRT

<213> Homo sapiens

<400> 6096

Lys Leu Lys Met Leu Ala Glu His Phe Val Val Leu Gln Ala Leu Leu 1 5 10 15

Ile Phe His Cys Ser Thr Cys Cys Trp Gln Ser Asn Phe Ser Glu Leu 20 25 30

<210> 6097

<211> 65

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6097

Ala Glu His Cys Ser Pro Ile Leu Val Leu Ile Trp Lys Phe Leu Gly
1 5 10 15

His Tyr Ala Asp Lys Lys Thr Arg Thr Pro Gly Ala Arg Lys Thr Cys
20 25 30

Cys Lys Ser Leu Val Cys Ser Tyr Glu Cys Pro Ser Thr Leu Glu Glu 35 40 45

Ala Leu Asp Ser Pro Val Pro Ser Phe Leu Gly Ala Arg Val Pro Xaa 50 55 60

Cys

```
<210> 6098
<211> 47
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (33)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 6098
Phe Tyr Cys Tyr Ser Glu Glu Ser Gln Leu Thr Asp Leu Asp Asp Phe
Lys Asp Ala Val Gln Met Arg Glu Gly Cys Lys Tyr Cys Phe Ser Ile
                                 25
Xaa Glu Leu Thr Val Ala Lys Val Gly Tyr Ser Ile Glu Ser Leu
                             40
<210> 6099
<211> 165
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (149)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (153)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 6099
Ile Arg His Glu Glu Thr Ser Ile Ala Leu Gln Asp Asn Tyr Glu Ile
                  5
Arg Tyr Thr Ala Ile Ser Val Ile Lys Asn Leu Leu Ile Lys His Ala
             20
Phe Asp Thr Arg Tyr Gln His Lys Asn Gln Gln Ala Lys Ile Ala Gln
                              40
Leu Tyr Leu Pro Phe Val Gly Leu Leu Glu Asn Ile Gln Arg Leu
                         55
Ala Gly Arg Asp Thr Leu Tyr Ser Cys Ala Ala Met Pro Asn Ser Ala
```

5332

65 70 75 80 Ser Arg Asp Glu Phe Pro Cys Gly Phe Thr Ser Pro Ala Asn Arg Gly 85 90 Ser Leu Ser Thr Asp Lys Asp Thr Ala Tyr Gly Ser Phe Gln Asn Gly 105 His Gly Ile Lys Arg Glu Asp Ser Arg Gly Ser Leu Phe Pro Glu Gly 115 Ala Thr Gly Phe Pro Asp Gln Gly Asn Thr Gly Glu Asn Thr Arg Gln 135 Asn Ser Thr Arg Xaa Ile Val Ser Xaa Tyr Asn Arg Leu Asp Gln Tyr 155 Glu Ile Thr Thr Ser 165 <210> 6100 <211> 61 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (44) <223> Xaa equals any of the naturally occurring L-amino acids <400> 6100 Gln Arg Gly Arg Trp Lys Gln Cys Ser Trp Lys Leu Leu Leu Ser Pro Leu Ser His His Ser Arg His Leu Leu Gln Ala Gly Arg His Val Ser 20 Val Arg Phe Leu Pro Gly Asp Ile Arg Ser Pro Xaa Ile Gln Ile Lys 40 Cys Asn Ile Leu Gln Thr Ala Leu Leu Arg Glu Ile Ser 50 55 <210> 6101 <211> 156 <212> PRT

<213> Homo sapiens

5333

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<220>
<221> SITE
<222> (92)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
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<222> (110)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (146)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 6101
Trp Ile Pro Arg Ala Ser Gly Ile Arg His Glu His Leu Arg Ser His
                  5
Thr Gln Glu Lys Val Val Ala Cys Pro Thr Cys Gly Gly Met Phe Ala
Asn Asn Thr Lys Phe Leu Asp His Ile Arg Arg Gln Thr Ser Leu Asp
                              40
Gln Gln His Phe Gln Cys Ser His Cys Ser Lys Arg Phe Ala Thr Glu
                         55
Arg Leu Leu Arg Asp His Met Arg Asn His Val Asn His Tyr Lys Cys
                     70
 65
Pro Leu Cys Asp Met Thr Cys Pro Leu Pro Ser Xaa Leu Arg Asn His
                                      90
                 85
Met Arg Phe Arg His Ser Glu Asp Arg Pro Phe Lys Cys Xaa Cys Cys
                                105
Asp Tyr Ser Cys Lys Asn Leu Ile Asp Leu Gln Lys His Leu Asp Thr
                                                 125
        115
                             120
His Ser Glu Glu Pro Ala Tyr Arg Cys Asp Phe Glu Asn Cys Thr Ser
    130
                         135
Val Xaa Asp Pro Leu Leu Tyr Gln Val Pro Leu Pro
                    150
145
```

<210> 6102 <211> 65

5334

```
<400> 6102
Phe Cys Leu Leu Ala Gly Glu Glu Ala Met Ser Trp Tyr Ser Gln
Trp Ser Gln Asp Pro Glu Cys Val Ala Lys Pro Tyr Thr Ala Phe His
                                 25
Gly Leu Phe Leu Gly Ala Arg Val Gly Gly Asp Met Val Leu Gly Ser
Asn Leu Pro Cys Asn Arg Trp Arg Ala Val Phe Ser Met Ala Pro Ala
                         55
Val
 65
<210> 6103
<211> 72
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (31)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (49)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 6103
Leu Gln Val Thr Leu Ser Ser Trp Pro Xaa Ile Ala Pro Arg Leu Phe
                  5
                                    10
Leu Pro His Trp Gly Gln Ser Phe Pro Trp Thr Lys Glu Arg Xaa Leu
             20
Gln Pro Phe Phe Lys Ser Leu Gly Pro Gly Pro Trp His Gln His His
         35
                             40
```

<212> PRT

<213> Homo sapiens

5335

Xaa Ser Leu Tyr Ser Ile His Gln Lys His Leu Lys Pro Thr Gln Ile 50 55 60

Cys Ser Met Gly Ser Ile His Val 65 70

<210> 6104

<211> 137

<212> PRT

<213> Homo sapiens

<400> 6104

Val Tyr Lys Tyr Leu Phe Phe Lys Arg Arg Cys Cys Ala Cys Glu Thr 1 5 10 15

Ile Leu Phe Phe Phe Phe Phe Phe Phe Phe Phe Leu Val Thr Ala 20 25 30

Lys Asp Arg Glu Pro Phe His Phe Gly His Thr Gly Leu Leu Ser Arg
35 40 45

Ser His Phe Ser Ser Trp Leu Leu Lys Ile Thr Ala Ser Pro Val Pro 50 55 60

Ser Trp Arg Ser Ser Arg Gly Arg Ala Asp Phe Ser Pro Thr Gly Gly 65 70 75 80

Thr Met Trp Gly Ser Glu Gly Trp Glu Gly Asp Phe Pro Leu Glu Trp 85 90 95

Trp Ser Cys Trp Gly Leu Ile Ser Arg Asp Pro Lys Gly Gly Leu Cys 100 105 110

Arg Arg Phe His Ile Gly Gly Ala Leu Ser Leu Ala Ala Val Arg Val 115 120 125

Gly Pro Gly Cys Gly Val Gln Thr Ala 130 135

<210> 6105

<211> 65

<212> PRT

<213> Homo sapiens

<400> 6105

Gly Asn Ser Arg Val Asp Pro Arg Val Arg Arg Asn Val Thr Arg Val 1 5 10 15

```
Arg Gly Ser Tyr Leu Tyr Ile Gly Phe Pro Ala Glu Asn Arg Pro Leu
             20
                                 25
Leu Tyr Arg Phe Trp Val His Asn Leu Ala Leu Leu Val Asn Pro Arg
Asp Leu Ser Asp Pro Pro Pro Pro Val Phe Leu Phe Leu Phe Leu
                         55
Phe
 65
<210> 6106
<211> 50
<212> PRT
<213> Homo sapiens
<400> 6106
Tyr Tyr Lys Ser Tyr Cys Thr His Phe Val Leu Glu Lys Asn Thr Glu
                  5
Ala Val Ala Gln Thr Leu Phe Asn Ile Arg Glu Phe Ile Leu Glu Lys
             20
Asn Pro Ala Asn Val Met Asn Leu Glu Lys His Phe Phe Ser Lys Thr
                             40
Thr Ala
     50
<210> 6107
<211> 67
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (46)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (47)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 6107
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5337

Val Asp Arg Ala Ile Ser Ile Thr Leu Arg Pro Leu Trp Val Ile Gly
1 5 10 15

Ala Asp Lys Val Pro Cys Ile Ala Asp Glu Ile Ser Pro Ser Trp Thr
20 25 30

Phe Pro Arg Asn Gly Pro Gly Val Ser Ser Asn Leu Ser Xaa Xaa Ile 35 40 45

Thr Cys Leu Glu Ile Thr Leu Glu Tyr Val Ser Tyr Lys Ala Arg Ser 50 55 60

His Gly Asn 65

<210> 6108

<211> 47

<212> PRT

<213> Homo sapiens

<400> 6108

Thr Arg Glu Arg Arg Gly Gly Asn Met Lys Val Asn Leu Asn Asn Phe
1 5 10 15

Cys Asn Thr Ser Tyr Leu Gln Thr Ile Gly Phe Met Leu Leu His Ser 20 25 30

Arg Cys Asp Leu Ser Tyr Val Ser Asp Arg Phe Tyr Glu Leu Phe 35 40 45

<210> 6109

<211> 122

<212> PRT

<213> Homo sapiens

<400> 6109

Gly Pro Ala Lys Gly Gly Lys Lys Lys Asp Pro Asn Ala Pro Lys
1 5 10 15

Arg Pro Pro Ser Gly Phe Phe Leu Phe Cys Ser Glu Phe Arg Pro Lys 20 25 30

Ile Lys Ser Thr Asn Pro Gly Ile Ser Ile Gly Asp Val Ala Lys Lys
35 40 45

Leu Gly Glu Met Trp Asn Asn Leu Asn Asp Ser Glu Lys Gln Pro Tyr 50 55 60

Ile Thr Lys Ala Ala Lys Leu Lys Glu Lys Tyr Glu Lys Asp Val Ala 65 70 75 Asp Tyr Lys Ser Lys Gly Lys Phe Asp Gly Ala Lys Gly Pro Ala Lys 85 90 Val Ala Arg Lys Lys Val Glu Glu Glu Asp Glu Glu Glu Glu Glu Glu 105 Glu Glu Glu Glu Glu Glu Glu Asp Glu 115 120 <210> 6110 <211> 82 <212> PRT <213> Homo sapiens <400> 6110 Val Asp Phe Leu Phe Ala Ile Asn Gln Ala Lys Val Asn Ala Ile Ile 10 Ser Arg Phe Met Val Asn Lys Phe Glu Val Trp Ile Asn Leu Ser His 20 Ile Phe Tyr Cys Ser Leu Val Lys Lys Gly Thr Arg Lys Lys Ile Ser 35 40 45 Ser Ser Leu Val Leu Ser Gln Cys Gly Asp Cys Arg Lys Leu Thr Met . 55 Pro Ala Cys Val Asn Val Trp Leu Thr Val Lys Ala Ser Phe Leu Ala 70 75 Ala Cys <210> 6111 <211> 34 <212> PRT <213> Homo sapiens <220> <221> SITE <222> (34) <223> Xaa equals any of the naturally occurring L-amino acids

5339

<400> 6111

Met Val Leu Arg Lys Tyr Phe Leu Trp Lys Ile Gly Arg Lys Tyr Phe 1 5 10 15

Asn Leu Asn Ile Lys Lys Ile Gly Asn Cys Tyr Phe Gln Gln Ser 20 25 30

Pro Xaa

<210> 6112

<211> 87

<212> PRT

<213> Homo sapiens

<400> 6112

Gly Ser Pro Gly Ala His Glu Pro Cys Gln Ala Pro Ala Gly Ser Ser 1 5 10 15

Arg His Val Pro Asp Leu Trp Gly Pro Arg Glu Gly Thr Phe Pro Ser 20 25 30

Trp Glu Arg Arg Arg Ser Gly Gln Leu Gly Glu Gly Cys Glu His Phe
35 40 45

Pro Pro Gly Arg Asp Gln Gly Asp Leu His Ala Leu Arg Arg Ala Trp 50 55 60

Lys Gly Ser Glu Lys Pro Ala Asp Arg Pro Cys Pro Ser Ser Arg Asp 65 70 75 80

His Leu Met Asn His Val Phe 85

<210> 6113

<211> 253

<212> PRT

<213> Homo sapiens

<400> 6113

Gln Asn Leu Pro Leu Thr Arg Arg Arg Pro Thr Gly Ser Cys Val Cys
1 5 10 15

Leu Gly Arg Gly Gly Pro Gly Gly Gly Leu Arg Ala Gly Ser Arg
20 25 30

His Pro Ala Pro Ala Ala Met His Pro Arg Pro Asp Gly Phe Asp

		35					40					45			
Gly	Leu 50	Gly	Tyr	Arg	Gly	Gly 55	Ala	Arg	Asp	Glu	Gln 60	Gly	Phe	Gly	Gly
Ala 65	Phe	Pro	Ala	Arg	Ser 70	Phe	Ser	Thr	Gly	Ser 75	Asp	Leu	Gly	His	Trp 80
Val	Thr	Thr	Pro	Pro 85	Asp	Ile	Pro	Gly	Ser 90	Arg	Asn	Leu	His	Trp 95	Gly
Glu	Lys	Ser	Pro 100	Pro	Tyr	Gly	Val	Pro 105	Thr	Thr	Ser	Thr	Pro 110	Туr	Glu
Gly	Pro	Thr 115	Glu	Glu	Pro	Phe	Ser 120	Ser	Gly	Gly	Gly	Gly 125	Ser	Val	Gln
Gly	Gln 130	Ser	Ser	Glu	Gln	Leu 135	Asn	Arg	Phe	Ala	Gly 140	Phe	Gly	Ile	Gly
Leu 145	Ala	Ser	Leu	Phe	Thr 150	Glu	Asn	Val	Leu	Ala 155	His	Pro	Cys	Ile	Val 160
Leu	Arg	Arg	Gln	Cys 165	Gln	Vāl	Asn	Tyr	His 170	Ala	Gln	His	Tyr	His 175	Leu
Thr	Pro	Phe	Thr 180	Val	Ile	Asn	Ile	Met 185	Tyr	Ser	Phe	Asn	Lys 190	Thr	Gln
Gly	Pro	Arg 195	Ala	Leu	Trp	Lys	Gly 200	Met	Gly	Ser	Thr	Phe 205	Ile	Val	Gln
Gly	Val 210	Thr	Leu	Gly	Ala	Glu 215	Gly	Ile	Ile	Ser	Glu 220	Phe	Thr	Pro	Leu
Pro 225	Arg	Glu	Val	Leu	His 230	Lys	Trp	Ser	Pro	Lys 235	Gln	Ile	Gly	Glu	His 240
Leu	Leu	Leu	Lys	Ser 245	Leu	Asn	Leu	Arg	Gly 250	Gly	Asn	Ala			

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<210> 6114
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<211> 168

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

5341

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (115)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6114

Ile Leu Phe Cys Pro Ala Ala Ala Xaa Lys Ala Ser His Pro Thr Pro 1 5 10 15

Arg Thr Phe Leu Val Arg Ser Gly Leu Ala Trp Gly Pro Pro Phe Ser 20 25 30

Val Ser Leu Val Cys Leu Tyr Pro Ala Leu Leu Ser Ser Leu Cys Ser 35 40 45

Ala Cys Leu Ser Leu Phe Ala Ser Pro Phe Ser Leu Ser Cys Arg Leu 50 55 60

Leu Ser Leu Gly Pro Pro Trp Phe Cys Leu Val Ser Leu Ser Leu Leu 65 70 75 80

Ile Ser Ser Leu Tyr Ser Phe Ser Arg Ala Gly Pro Thr Gly Arg Thr 85 90 95

Arg Leu Ser Gln Ile Asn Pro His Thr Asn Lys Ile Gln Asn Gln Ile 100 105 110

Pro Leu Xaa Thr Gly Ala Gly Thr Leu Arg Arg Ser Arg Ile Lys Leu 115 120 125

Phe Ser Val Ser Glu Ala Leu Leu Thr Cys Val Cys Val Cys 130 135 140

Val Leu Gly Glu Gly Asp Leu Asp Cys Ser Ile Arg Thr Leu Ser Glu 145 150 155 160

Thr Glu Gly Arg Trp Glu Asp Asp 165

<210> 6115

<211> 180

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (140)

5342

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<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (157)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (169)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 6115
His Glu Val Glu Asn Asn Thr Leu Gly Ser Pro Ala Ala Ser Glu Leu
                                      10
Leu Glu His Leu Lys Pro Thr Tyr Trp Phe Ser Ala His Leu His Val
                                  25
Lys Phe Ala Ala Leu Met Gln His Gln Ala Lys Asp Lys Gly Gln Thr
         35
                              40
                                                  45
Ala Arg Ala Thr Lys Phe Leu Ala Leu Asp Lys Cys Leu Pro His Arg
                         55
Asp Phe Leu Gln Ile Leu Glu Ile Glu His Asp Pro Ser Ala Pro Asp
                     70
Tyr Leu Glu Tyr Asp Ile Glu Trp Leu Thr Ile Leu Arg Ala Thr Asp
                 85
                                      90
Asp Leu Ile Asn Val Thr Gly Arg Leu Trp Asn Met Pro Glu Asn Asn
            100
                                105
                                                     110
Gly Leu His Ala Arg Trp Asp Tyr Ser Ala Thr Glu Glu Gly Met Lys
                            120
Glu Val Leu Glu Lys Leu Asn His Asp Leu Lys Xaa Pro Cys Asn Phe
    130
                        135
                                             140
Ser Val Thr Ala Ala Cys Tyr Asp Pro Ser Lys Pro Xaa Thr Gln Met
145
                    150
                                                             160
Gln Leu Ile His Arg Ile Asn Pro Xaa Thr Thr Glu Phe Cys Ala Gln
                165
                                     170
                                                         175
Leu Gly Ile Ile
```

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<210> 6116
<211> 63
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (31)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 6116
Asn Tyr Lys Ile Cys Met Tyr Leu Ala Leu Asn His Asn Leu Lys Tyr
                                     10
Phe Met Asn Ser Phe Thr Ser Ile Asp Ser Gln Asn Ser Asn Xaa Lys
Leu Ala Ser Glu Pro Val Arg Thr Pro Pro His Pro Ser Ser Cys Leu
                     40
                                                 45
Asp Leu Ser Thr Ala Ile Ile Leu Cys Lys Ala Val Val Leu Thr
     50
                         55
<210> 6117
<211> 72
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (60)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (62)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
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5344

<221> SITE <222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6117

Thr Leu Thr Lys Gly Xaa Lys Ser Trp Xaa Ser Thr Ala Val Thr Thr 1 5 10 15

Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg Ala 20 25 . 30

Gln Leu Thr Arg Cys Gln Leu Gly Ser Cys Ser Gly Gly Arg Lys Arg
35 40 45

Leu Arg Arg Phe Pro Ala Leu Ser Pro Gln Pro Xaa Arg Xaa Ser Gly 50 55 60

Ser Gln Asp Val Xaa Phe Asp Asp 65 70

<210> 6118

<211> 257

<212> PRT

<213> Homo sapiens

<400> 6118

Pro Arg Val Arg Ala Phe Ala Gly Val Pro Thr Arg Gly Arg Thr Arg

1 5 10 15

Gly Gln Ser Arg Arg Cys Ala Ala Glu Ala Ser Ala Gly Pro Glu Arg 20 25 30

Asp Ala Arg Pro Gly Ala Pro Ala Ala Gly Thr Met Gly Ala Ala His
35 40 45

Ser Ala Ser Glu Glu Val Arg Glu Leu Glu Gly Lys Thr Gly Phe Ser 50 55 60

Ser Asp Gln Ile Glu Gln Leu His Arg Arg Phe Lys Gln Leu Ser Gly 65 70 75 80

Asp Gln Pro Thr Ile Arg Lys Glu Asn Phe Asn Asn Val Pro Asp Leu 85 90 95

Glu Leu Asn Pro Ile Arg Ser Lys Ile Val Arg Ala Phe Phe Asp Asn 100 105 110

Arg Asn Leu Arg Lys Gly Pro Ser Gly Leu Ala Asp Glu Ile Asn Phe 115 120 125

5345

Glu Asp Phe Leu Thr Ile Met Ser Tyr Phe Arg Pro Ile Asp Thr Thr 130 135 140

Met Asp Glu Glu Gln Val Glu Leu Ser Arg Lys Glu Lys Leu Arg Phe 145 150 155 160

Leu Phe His Met Tyr Asp Ser Asp Ser Asp Gly Arg Ile Thr Leu Glu 165 170 175

Glu Tyr Arg Asn Val Val Glu Glu Leu Leu Ser Gly Asn Pro His Ile 180 185 190

Glu Lys Glu Ser Ala Arg Ser Ile Ala Asp Gly Ala Met Met Glu Ala 195 200 205

Ala Ser Val Cys Met Gly Gln Met Glu Pro Asp Gln Val Tyr Glu Gly
210 215 220

Ile Thr Phe Glu Asp Phe Leu Lys Ile Trp Gln Gly Ile Asp Ile Glu 225 230 235 240

Thr Lys Met His Val Arg Phe Leu Asn Met Glu Thr Met Ala Leu Cys 245 250 255

His

<210> 6119

<211> 94

<212> PRT

<213> Homo sapiens

<400> 6119

Leu Ser Ser Gly Ala Glu Gly Asp Pro Gly Ser Leu Thr Gly Arg Ala
1 5 10 15

Phe Phe Phe Thr Thr Trp Ala Glu Val Arg Glu Phe Cys His Thr 20 25 30

Gly Gly Arg Val Thr His Gln Gly Gly Met Trp Leu Gln Gln Ala Lys 35 40 45

Gly His Arg Lys Gly Gly Ala Gly Asp Ser Arg Val Ala Ala Thr Leu 50 55 60

Val Gly Trp Gly Gly Ala Gly Gly Arg Ser Asn Arg Asp Gly Val Gly 65 70 75 80

5346

Leu Lys Lys Ser Phe Phe Phe Ser Phe Phe Lys Gln Lys Lys 85 90

<210> 6120

<211> 120

<212> PRT

<213> Homo sapiens

<400> 6120

Arg Tyr Phe Leu Lys Met Ala Lys Ile Leu Thr Thr Pro Lys Phe Ala 1 5 10 15

His Ala Phe Arg Asn Leu Thr Phe Glu Gly Tyr Asp Gly Pro Val Thr 20 25 30

Leu Asp Asp Trp Gly Asp Val Asp Ser Thr Met Val Leu Leu Tyr Thr
35 40 45

Ser Val Asp Thr Lys Lys Tyr Lys Val Leu Leu Thr Tyr Asp Thr His 50 55 60

Val Asn Lys Thr Tyr Pro Val Asp Met Ser Pro Thr Phe Thr Trp Lys
65 70 75 80

Asn Ser Lys Leu Pro Asn Asp Ile Thr Gly Arg Gly Pro Gln Ile Leu 85 90 95

Met Ile Ala Val Phe Thr Leu Thr Gly Ala Val Val Leu Ser Cys Arg 100 105 110

Arg Ser Pro Asp Ala Gln Lys Ile 115 120

<210> 6121

<211> 72

<212> PRT

<213> Homo sapiens

<400> 6121

Arg Pro Glu Gly Ala Gln Leu Cys Pro Gln Gly Lys Leu Lys Ser Pro 1 5 10 15

Ala Leu Ser Ala Leu Gly Pro Cys Arg Ala Val Arg Val Glu Leu Pro
20 25 30

Pro Gln Thr Leu Arg Ser His Ala Val His Ser Ser Ser Trp Ile Ser 35 40 45

```
Leu Arg Thr Phe Val Leu Ala Tyr Leu Asn Asp Leu Ser Thr Glu Thr
    50
                         55
Pro Gly Cys Leu Pro Leu Pro Leu
                    70
<210> 6122
<211> 34
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids
Val Leu Xaa Ser Ile Pro Phe Ile Ile Ser Tyr Val Ile Ser Leu Ser
Phe Leu Val Gly Ser Lys Thr His Xaa Gln Phe Ser Gln Ser Ser Met
                                                      30
                                 25
             20
Asp Ile
<210> 6123
<211> 69
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (19)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (30)
<223> Xaa equals any of the naturally occurring L-amino acids
Ser Ser Phe Pro Gln Pro Pro Xaa His Gly Trp Val Gly Glu Ala Arg
                                     10
Arg Asn Xaa Leu Arg Gln Glu Val Ala Ala Gln Val Xaa Leu Leu
Ala Ser Glu Pro Thr Glu Val Arg Ser Gly Arg Trp Thr Cys Pro Pro
                             40
Asn Val Pro Asp Ser Gly Ser Cys Cys His Trp Ile Ser Trp His Gly
                         55
Arg Gln Lys Glu Arg
 65
<210> 6124
<211> 80
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (73)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> SITE
<222> (80)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 6124
Thr Pro Ala Pro Pro Ser Pro Ala Ala Ala Arg Glu Ser Thr Arg Arg
Val Ala Ile Asn Val Arg Ala Ser Ile Ala Leu Ser Ser Ser Leu Arg
             20
                                 25
Thr Leu Val Leu Pro Arg Leu Thr Pro Thr Ser Pro Gly Pro Arg Gly
        35
                             40
                                                 45
Trp Gly Asn Leu Ala Val Pro Arg Leu Ser Asn Lys Ala Val Leu Ser
                         55
```